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FAA Office of Environment and Energy
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FAA Product Substitution Guide

BACKGROUND

During the past decade, the Federal Government established a framework for Federal Agencies to conduct their daily operations in an environmentally responsible manner. Several Acts and Executive Orders set policy and goals that are applicable to all federal agencies. The Pollution Prevention Act of 1990 established a national policy hierarchy for pollution prevention activities, with source reduction as the preferred method over recycling, waste treatment and finally, disposal. Executive Order 12856, Federal Facility Compliance with Right-to-Know Laws and Pollution Prevention Requirements, extended this policy to include federal facilities and set reduction goals for all federal agencies. Most recently, Executive Order 13148, Greening the Government Through Leadership in Environmental Management, gave significant, added emphasis to environmental stewardship across federal agencies.

In addition to source reduction, the Federal Government established affirmative procurement as a means to procure materials and products that are environmentally preferable. The affirmative procurement programs must be developed and implemented in accordance with Section 6002 of the Resource Conservation and Recovery Act (RCRA) (42 U.S.C. 6962), Executive Order 13101, Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition and the Office of Federal Procurement Policy Letter 92-4.

The FAA is actively reducing its hazardous materials usage and hazardous waste generation through several initiatives, including the FAA's Pollution Prevention Policy Statement. The FAA's affirmative procurement program encourages facilities to purchase and use environmentally preferable products and services. To assist in promoting these programs, the FAA Office of Environment and Energy created this product substitution guide to identify environmentally preferable alternatives for hazardous materials used by the FAA and to identify products available for purchase by the FAA that contain recovered materials.

Also included in the guide are the following appendices: Appendix A—Manufacturer Phone and Address List, which lists manufacturers, including points of contact, phone numbers, and addresses and Appendix B—Alternative Product Material Safety Data Sheets (MSDSs).¹

ABOUT THE REVISION

This current product substitution guide is an updated version of the original FAA Product Substitution Guide developed in 1997. For this update, each product was reviewed to determine its current availability, whether the product has been reformulated or marketed under a new name, and whether additional product substitutes are available. Products no longer available were removed from the guide. FAA field personnel provided input as to the suitability of certain products for use in FAA applications. In addition, this guide includes a new section containing a list of affirmative procurement product suppliers.

APPROACH

Creating the original product substitution guide involved a comprehensive data collection effort to identify less hazardous products to replace current hazardous products used at FAA facilities. Chemical inventories were gathered from the Technical Center, Aeronautical Center, Southern Region, and the Lone Star System Management Office (SMO). All available MSDSs were examined and a list of the most frequently used (or found in significant quantity) hazardous products was developed. Most products in the inventory contained volatile organic compounds (VOCs), ozone-depleting substances (ODSs), or other hazardous constituents.

The hazardous materials inventory then was divided into several categories, including adhesives, corrosion preventive compounds, electronics cleaning materials, fluxes, freeze sprays, pesticides, lubricants, and solvents. The search for environmentally preferred products began by reviewing government manuals, accessing pollution prevention resources available on the World Wide Web, and contacting the manufacturers of currently used products to determine whether they offer a more

¹ Only included in the 8.5" x 11" version of the Product Substitution Guide.

environmentally preferable formulation of their products. The following sources were reviewed to identify additional alternative products:

- PRO-ACT—An on-line environmental information system operated by the US Air Force
- Defense Logistics Agency Environmental Products, on-line edition, March 2002
- General Services Administration (GSA) Environmental Products Guide, on-line edition March 2002
- Department of Defense (DoD) Tri-Service Opportunity Handbook, July 1996

Available environmental, safety, health, and cost data along with performance data for the product substitutes not included on the MSDSs, were collected during phone interviews. Manufacturers were reluctant to indicate any negative performance issues other than limited compatibility and process information. Testing by the FAA has not been performed on any of the products listed in this guide; therefore, FAA cannot guarantee the products meet manufacturer claims.

The affirmative procurement section of the guide was prepared using a methodology similar to that used in developing the product substitution portion of the document. EPA's Comprehensive Procurement Guidelines (CPG) served as the starting point to identify EPA's eight categories of affirmative procurement products: Construction Products, Landscaping Products, Non-paper Office Products, Paper and Paper Products, Parks and Recreation Products, Transportation Products, Vehicular Products, and Miscellaneous. Each of these categories was included in the Affirmative Procurement Section of the document. The EPA manufacturers list was reviewed and several manufacturers were contacted for each category to collect information regarding the recycled content percentages and associated prices of each product. Proposed products without a known recycled content were not added to the guide.

ADVANTAGES / DISADVANTAGES

Overall, the products identified in this guide are either non-hazardous or have more favorable environmental, safety, and health properties than currently used products. Technicians using these products may need to modify their procedures slightly to accommodate new product characteristics, such as longer drying times. A number of environmentally preferred alternatives are available for each category. The first section of the guide highlights a number of the best available product substitutes.

Adhesives — These adhesives typically have a lower National Fire Protection Association (NFPA) health hazard rating and are less flammable than current adhesives. These products may require longer curing and setup times.

Cleaners/Solvents —The alternative products in this section include aqueous cleaners, degreasers, general-purpose cleaners, solvents, and paint thinner. The aqueous cleaners typically are available in concentrate and can be diluted with various amounts of water to meet a specific application (e.g., a high dilution rate would be desired for general-purpose cleaner). The degreasers listed are generally reserved for cleaning applications involving heavy accumulations of grease and oil. Paint thinners are used primarily for the cleanup of paintbrushes, rollers, applicators, and other equipment, although they can be used for cleaning applications.

The prices of substitute products are similar to existing products, but a direct comparison is not possible because some products may require more of the product to achieve the same level of cleanliness.

Corrosion Preventive Compounds — FAA facility maintenance includes many operations that require the application of aerosol corrosion preventive compounds to lubricate and protect parts against corrosion. Historically, these products contained ozone-depleting substances, but new formulations are now available. The substitute products, although non-ozone-depleting, typically are more flammable than existing products and may not be acceptable for certain applications, such as flight line

operations. These more flammable products should be tested thoroughly to ensure that they do not present any operational or safety problems.

Lubricant — Several alternative lubricants were identified that have a lower NFPA health hazard rating and that are less flammable than existing products. These alternative products include non-toxic, synthetic lubricants that are safe for incidental food contact. Synthetic lubricants typically cost more, but these costs are offset by reduced waste generation since they require fewer lubricant changeouts. In some cases, substitute spray lubricants may require more of the product to achieve the same performance as existing lubricants. Additionally, re-refined lubricants can be procured through the Defense Logistics Agency (DLA). These products may contain percentages of recovered content that meet EPA's comprehensive procurement guidelines for acceptable EPA-designated items under the affirmative procurement program.

Pesticides — Contractors handle and apply most pesticides at the FAA facilities; however, FAA procurement personnel are able to specify more environmentally friendly pesticide practices. Most of the recommendations in this guide are not direct substitutions, but process changes to application procedures. These process changes may include planting options and physical means of controlling pest populations. This guide includes references where climate specific information is available, as well as information about herbicides.

Electronics Cleaning and Flux — This category refers to the fluxes and cleaners that FAA technicians use to clean electronic parts and circuit boards. FAA technicians use rosin solder and flux to repair circuit boards in FAA equipment. These fluxes leave a solder residue on the circuit board that is best removed using a chlorinated solvent. Flux manufacturers have developed fluxes and solders whose residue can be left on the circuit boards or removed with an aqueous solvent. The products can be used on most circuit boards, the exception being those with component lead spacing of significantly less than 25 mils. The FAA, however, does not have many circuit boards with spacing this small. The cost of these fluxes and solders is the same as rosin-based fluxes and solders. If reformulated fluxes cannot be used or technicians are cleaning electronic parts that previously used rosin fluxes technicians may use aerosol cleaners. These aerosol cleaners usually contain chlorinated

solvents. Newly reformulated versions of these products, without chlorine, are now available.

Freeze Spray — FAA technicians use freeze sprays to cool components on circuit boards to detect problems with interconnections. Most freeze sprays contain the ozone-depleting substances, R-12 and R-22. Several new products and mechanical methods are available that do not contain these substances. New substitutes containing HFC-134a may cause elevated levels of electrostatic discharge (ESD). Manufacturers blend the HFC-134a with alcohol to minimize the ESD. Mechanical methods may require initial investments of up to \$1,000.

Basic tradeoffs (i.e., the advantages and disadvantages) of alternative products are identified. As indicated previously, manufacturers usually are not forthcoming about the negative aspects of their products. However, several of the products listed in this guide are used by the Department of Defense and other federal agencies. Numerous websites are available with information regarding many of the products listed in the guide, including: www.dscr.dla.mil/environmental.htm, www.enviro.nfesc.navy.mil, www.gsa.gov, and www.epa.gov/cpg/products.htm.

The second section of the guide contains specific information for each of the alternative and affirmative procurement products, including: product name; manufacturer and manufacturer phone number; suggested uses and unacceptable uses; environmental, safety, and health requirements; recovered content percentages; and, pricing information.

SUMMARY

The intent of this substitution guide is to provide a more concise list of environmentally preferable products that are applicable to FAA operations. Prior field visits were relied on to determine which products would be most effective without disrupting current operations. FAA personnel are aware of the growing concern regarding hazardous materials and have significantly reduced the quantity of hazardous materials they utilized at their facilities. Additionally, the cost of disposing hazardous wastes and completing compliance reports further motivate FAA

employees to embrace environmentally preferred products. Using these products enables FAA personnel to concentrate less effort on environmental compliance and more on executing the Agency's primary mission.

Users of this guide should provide any information on the guide or feedback concerning products listed in the guide to Mr. Frank Lanzetta in the Office of Environment and Energy (AEE-200). Mr. Lanzetta is available at frank.lanzetta@faa.gov and at (202) 267-3497.

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ADHESIVES

Product: 340 Heat Sink Compound

Manufacturer: Dow Corning

517-496-6000

Material Use:	Epoxy with heat sink properties.
Non Acceptable Uses:	None listed.
Product Performance Data:	

Properties

Toxicity:	Toxicological information not yet available.
Disposal:	Complete information not yet available. Contact Dow Corning Environmental Management (515) 496-6315 for additional information.
Flammability	Flash point (closed cup) > 250 degrees F, 121 degrees C. NFPA Flammability rating = 1.
Exposure:	General ventilation recommended. PPE - eye protection, safety glasses at a minimum. Wash hands at end of shift and mealtime. Precautions are for room temperature handling. Use at elevated temperature or aerosol spray applications may require additional precautions.
Storage:	No special requirements. Use reasonable care.

Pricing

Quantity	Price
14 oz. Tube	\$36.07

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

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ADHESIVES

Product: Earthbond 7000

Manufacturer: Roberts Consolidated Industries

573-581-8111

Material Use:	Adhesive used for attaching floor coverings.
Non Acceptable Uses:	Avoid contact with strong oxidizers and caustics.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 0.
Disposal:	Discarded spill residue may be incinerated. Do not incinerate sealed containers.
Flammability	No flash point is stated.
Exposure:	Avoid skin and eye contact. Use in a well-ventilated area.
Storage:	Keep containers from excessive heat and freezing.

Pricing

Quantity	Price
4 gallon pail	\$28.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ADHESIVES

Product: Earthbond 7100

Manufacturer: Roberts Consolidated Industries

573-581-8111

Material Use:	Earthbond 7100 is a latex-based adhesive. It is used primarily for adhering felt-backed sheet goods to subfloors of underlayment quality, or concrete on, above, or below grade.
Non Acceptable Uses:	Avoid contact with strong oxidizers and caustics.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 0.
Disposal:	Discarded spill residue may be incinerated. Do not incinerate sealed containers.
Flammability	No flash point is stated.
Exposure:	Avoid skin and eye contact. Use in a well-ventilated area.
Storage:	Keep containers from excessive heat and freezing.

Pricing

Quantity	Price
4 gallon pail	\$27.50

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ADHESIVES

Product: Earthbond 7200

Manufacturer: Roberts Consolidated Industries

573-581-8111

Material Use:	Earthbond 7200's design use is for adhering vinyl and rubber cove bases over clean, dry structurally sound wall surfaces.
Non Acceptable Uses:	Avoid contact with strong oxidizers and caustics.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 0.
Disposal:	Discarded spill residue may be incinerated. Do not incinerate sealed containers.
Flammability	Non-flammable..
Exposure:	Avoid eye contact. Use in a well-ventilated area.
Storage:	Keep containers from excessive heat and freezing.

Pricing

Quantity	Price
4 gallon pail	\$36.70

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ADHESIVES

Product: Earthbond 7300

Manufacturer: Roberts Consolidated Industries

573-581-8111

Material Use:	Earthbond 7300's design use is for adhering vinyl composition tile and asphalt tile over clean, dry structurally sound plywood subfloors or concrete.
Non Acceptable Uses:	Avoid contact with strong oxidizers and caustics.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 0.
Disposal:	Discarded spill residue may be incinerated. Do not incinerate sealed containers.
Flammability	No flash point is stated.
Exposure:	Avoid skin and eye contact. Use in a well-ventilated area.
Storage:	Keep containers from excessive heat and freezing.

Pricing

Quantity	Price
4 gallon pail	\$33.20

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

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ADHESIVES

Product: Earthbond 7500

Manufacturer: Roberts Consolidated Industries

573-581-8111

Material Use:	Earthbond 7500 is a water-based adhesive for adhering carpet to floors.
Non Acceptable Uses:	Avoid contact with strong oxidizers and caustics.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 0.
Disposal:	Discarded spill residue may be incinerated. Do not incinerate sealed containers.
Flammability	No flash point is stated.
Exposure:	Avoid eye contact. Use in a well-ventilated area.
Storage:	Keep containers from excessive heat and freezing.

Pricing

Quantity	Price
4 gallon pail	\$78.20

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ADHESIVES

Product: Healthguard Adhesive #2055

Manufacturer: W.F. Taylor Co.

909-380-6677

Material Use:	This product is a solvent-free carpet adhesive.
Non Acceptable Uses:	None known.
Product Performance Data:	

Properties

Toxicity:	The product has an NFPA health hazard rating of 1.
Disposal:	No specific disposal requirements are given.
Flammability	Non-flammable..
Exposure:	Avoid eye contact.
Storage:	No specific storage requirements.

Pricing

Quantity	Price
4 gallon pail	\$32.60

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

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ADHESIVES

Product: **Scotch-Grip 4213-NF**

Manufacturer: 3M

800-362-3550

Material Use:	This product is designed for adhering porous materials (e.g., fabric, wood). It is not recommended for exterior applications.
Non Acceptable Uses:	Use indoors. Protect from cold temperatures
Product Performance Data:	

Properties

Toxicity:	Contains a small fraction (0.5%) of hexylene glycol. NFPA health hazard rating = 1.
Disposal:	None given
Flammability	Non-flammable
Exposure:	Avoid eye and skin contact
Storage:	Store at temperatures >32 degrees F. Keep out of reach of children.

Pricing

Quantity	Price
5 gallon	\$56.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



ADHESIVES

Product: **Scotch-Grip 4289-NF**

Manufacturer: 3M

800-362-3550

Material Use:	This product is a water-based dispersed adhesive/sealant designed to bond painted metal, wood, Styrofoam, concrete, drywall, and other substances.
Non Acceptable Uses:	None given
Product Performance Data:	

Properties

Toxicity:	This product has low concentrations of ethylene glycol, xylene isomers, and ethyl benzene, and ammonia. This product has an NFPA health hazard rating of 1.
Disposal:	Completely-cured waste can be disposed of in an incinerator.
Flammability	Non-flammable in the wet state
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Store product at a temperature >40 degrees F. Best storage temperature is 60-80 degrees F.

Pricing

Quantity	Price
5 gallon	\$42.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



ADHESIVES

Product: **Scotch-Weld 2216 Two-Part Epoxy Adhesives**

Manufacturer: 3M

800-362-3550

Material Use:	This product is a two-part, room temperature curing epoxy. It is designed for bonding metals, woods, plastics, rubber, and masonry products.
Non Acceptable Uses:	
Product Performance Data:	

Properties

Toxicity:	Exposure is not known to cause significant adverse health effects. Part A has a NFPA health hazard rating of 2. Part B's rating is 1.
Disposal:	Completely cured waste may be disposed in a sanitary landfill.
Flammability	None given
Exposure:	Avoid eye and skin contact. Use in a well ventilated area.
Storage:	

Pricing

Quantity	Price
1 quart kit	\$105.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



ADHESIVES

Product: Silicone Heat Sink Compound

Manufacturer: Chemtronics

770-424-4888

Material Use:	Facilitates heat transfer away from electrical/electronic components.
Non Acceptable Uses:	Reacts with strong oxidizing materials.
Product Performance Data:	

Properties

Toxicity:	No toxicity data specified.
Disposal:	Comply with federal, state, and local regulations. Reclaim by distillation or remove to permitted waste disposal facility.
Flammability	Flashpoint >250 degrees F, 121 degrees C.
Exposure:	Avoid contact with open flames or red hot surfaces. Do not heat containers above 120 degrees F. Eye contact may cause slight, reversible irritation. Slight irritation to the skin from repeated or prolonged exposure.
Storage:	Use reasonable caution and store at elevated temperatures. Store above 120 degrees F, 49 degrees C.

Pricing

Quantity	Price
5 oz. Tube	\$12.93

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ADHESIVES

Product: Silicone Heat Sink Compound

Manufacturer: GC Waldom

815-968-9661

Material Use:	Industrial standard zinc oxide for facilitating heat transfer away from electrical/electronic components.
Non Acceptable Uses:	None.
Product Performance Data:	

Properties

Toxicity:	HMIS/NFPA: flammability rating of 1.
Disposal:	Dispose of as a non-hazardous solid waste.
Flammability	Flash point is 215 degrees F; HMIS/NFPA: flammability = 0.
Exposure:	Avoid contact with eyes and skin.
Storage:	Do not store or use near sparks or open flame.

Pricing

Quantity	Price
1 lb. Can	\$24.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ADHESIVES

Product: Solvent Free Titebond Subfloor Adhesive

Manufacturer: Franklin International

804-489-8282

Material Use:	This product is designed for adhering subfloor installation and plywood.
Non Acceptable Uses:	Avoid contact with strong acids and bases.
Product Performance Data:	

Properties

Toxicity:	Product contains less than 5% toluene and methanol. NFPA Health hazard rating = 1.
Disposal:	No specific disposal requirements given.
Flammability	Store at temperatures 50-90 degrees F. Use in well ventilated area. Product should not exceed 200 degrees F.
Exposure:	Avoid eye and prolonged skin contact. Use in a well-ventilated area.
Storage:	Keep from freezing.

Pricing

Quantity	Price
29 oz. Tube	\$3.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



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CORROSION PREVENTIVE

Product: B-1007 Corrosion Inhibitor (Replaced by LPS-3)

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Forms heavy, waxy film to protect against rust and corrosion for 2 years.
Non Acceptable Uses:	None given.
Product Performance Data:	

Properties

Toxicity:	NFPA rating for Health =1
Disposal:	No specifics
Flammability	112 degrees F. Lower Explosive Limit .7%/Upper Explosive Limit 6%.
Exposure:	Avoid eye and skin contact. Avoid inhalation which causes headache, dizziness, nausea and anesthetic effects.
Storage:	Store below 120 degrees F and above 32 degrees F. Store away from ignition sources.

Pricing

Quantity	Price
5 gallons	\$182.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



CORROSION PREVENTIVE

Product: DR-9000

Manufacturer: Dominion Restoration, Inc.

804-359-4400

Material Use:	Internal pipes and closed piping systems. Examples: ballast tanks, boilers, chilled water systems, heat exchange pumps, valves, etc.
Non Acceptable Uses:	Avoid strong acids and alkalis
Product Performance Data:	

Properties

Toxicity:	
Disposal:	Follow normal procedures.
Flammability	Flash point- None.
Exposure:	Avoid eye and skin contact.
Storage:	Store in a cool place.

Pricing

Quantity	Price
GL (bulk)	\$32.47

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

CORROSION PREVENTIVE

Product: Corrosion Inhibitor, J102023 (Now called J103447)

Manufacturer: Finish Thompson, Inc.

800-848-4847

Material Use:	Corrosion inhibitor.
Non Acceptable Uses:	Avoid contact with strong acids, strong reducing agents, strong oxidizers, materials reactive with hydroxyl compounds.
Product Performance Data:	

Properties

Toxicity:	Corrosive (alkaline). Sodium Nitrate 4300mg/kg (oral). Sodium Nitrite 120mg/kg. Sodium Tetraborate 3200 mg/kg.
Disposal:	No specific disposal requirements listed.
Flammability	Non flammable.
Exposure:	Avoid eye and skin contact, inhalation, and ingestion.
Storage:	Store in a cool, dry, well-ventilated place. Keep away from heat.

Pricing

Quantity	Price
55 gallon	\$3,020.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

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CORROSION PREVENTIVE

Product: LPS Hardcoat Corrosion Protectant

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Hard film rust and corrosion protectant that resists dirt buildup, penetrates to displace moisture and stops exfoliation of filiform corrosion.
Non Acceptable Uses:	None given.
Product Performance Data:	Authorized by USDA.

Properties

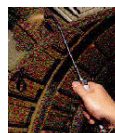
Toxicity:	This product has an NFPA rating of 1.
Disposal:	Dispose of in accordance with federal, state, and local requirements. EPA Waste Code = D001.
Flammability	Flash point = 105 degrees F (TCC)
Exposure:	Avoid contact with skin and eyes. Inhalation of high concentrations may result in headaches, dizziness, nausea and anesthetic effects.
Storage:	Store aerosols below 120 degrees F and above 32 degrees F. Store away from ignition sources in a well-ventilated area.

Pricing

Quantity	Price
1 gallon	\$38.30

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

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CORROSION PREVENTIVE

Product: LPS Procyon Corrosion Inhibitor

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Hard film rust and corrosion protectant that resists water, acids, alkali, salt spray and other corrosive elements.
Non Acceptable Uses:	None given.
Product Performance Data:	Rust and corrosion protectant

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = 105 degrees F (TCC). Lower Explosive Limit .7%/ Upper Explosive Limit 6%.
Exposure:	Avoid contact with skin and eyes. Inhalation of high concentrations may result in headaches, dizziness, nausea and anesthetic effects. Do not ingest.
Storage:	Store aerosols below 120 degrees F and above 32 degrees F. Store away from ignition sources in a well-ventilated area.

Pricing

Quantity	Price
1 gallon	\$56.99

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



CORROSION PREVENTIVE

Product: LPS-3 Heavy-Duty Rust Inhibitor

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Long term, heavy duty corrosion inhibitor that forms a transparent, soft waxy film for protection and lubrication.
Non Acceptable Uses:	None given.
Product Performance Data:	Rust inhibitor

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = 112 degrees F (TCC)
Exposure:	Avoid contact with skin and eyes. Inhalation of high concentrations may result in headaches, dizziness, nausea and anesthetic effects.
Storage:	Store aerosols below 120 degrees F and above 32 degrees F. Store away from ignition sources in a well-ventilated area.

Pricing

Quantity	Price
1 gallon	\$29.69

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

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ELECTRONICS CLEANER

Product: Accuduster III, Microduster III

Manufacturer: AccTech Company

201-327-9100

Material Use:	Dust cleaner for electronic equipment.
Non Acceptable Uses:	None given.
Product Performance Data:	Electronic duster

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	No flash point.
Exposure:	Avoid contact with skin and eyes -- contact with skin can cause frostbite. Vapor also reduces available oxygen in air. Use in ventilated area.
Storage:	None given.

Pricing

Quantity	Price
10 oz cans	\$10.93

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ELECTRONICS CLEANER

Product: CFC-Free Electro Contact Cleaner

Manufacturer: LPS Laboratories

800-241-8334

Material Use:	This product is designed for cleaning and maintaining computer circuit boards. It is an alternative to Freon 113.
Non Acceptable Uses:	The product should be used only for cleaning de-energized electrical equipment. Using the product on energized equipment creates a flash point hazard. Avoid oxygen and strong oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	Contains n-hexane, isohexane, and isopropyl alcohol. This product has an NFPA health hazard rating of 1.
Disposal:	Dispose of in accordance with federal, state, and local regulations for flammable hydrocarbons. EPA Waste Code = D001.
Flammability	Bulk liquid Flash point less than 0 degrees F TCC. (Highly flammable).
Exposure:	Use in well-ventilated areas. Avoid eye and skin contact.
Storage:	Store aerosols below 120 F and above 32 F.

Pricing

Quantity	Price
5 gallon container	\$184.49
Box-12, 11 oz. Cans	76.50

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



ELECTRONICS CLEANER

Product: Citra-Safe and Citra-Safe (deodorized)

Manufacturer: Inland Technology, Inc.

206-383-1177

Material Use:	Electronic and electrical cleaning, metal preparation, surface preparation for printing/welding, washing parts paint cleanup, degreasing, and vapor degreasing/precision cleaning.
Non Acceptable Uses:	No to be used for paint removal.
Product Performance Data:	

Properties

Toxicity:	None listed.
Disposal:	No specific disposal requirements given. Biodegradable.
Flammability	Flash point = 132 degrees F (PMCC)
Exposure:	Low oral and dermal toxicity. Prolonged exposure can cause deffating and dermatitis. Avoid contact with skin and eyes.
Storage:	Avoid temperature extremes.

Pricing

Quantity	Price
15 oz. Can	\$11.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ELECTRONICS CLEANER

Product: Daraclean 282: Aqueous Alkaline Cleaner

Manufacturer: Magna Flux

617-861-6600 ext. 2278

Material Use:	Alkaline all-purpose cleaner, formulated to be non-aggressive toward zinc and aluminum alloys, designed specifically for aerospace and electronics applications, used in soaking, agitation, and spray.
Non Acceptable Uses:	Not to be used for paint removal.
Product Performance Data:	Electronics cleaner

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	Do not mix with nitrites or nitrite containing compounds. Biodegradable.
Flammability	Flash point = none to boiling (COC)
Exposure:	Low order oral and dermal toxicity. Slight eye irritation. Prolonged skin exposure can cause defatting and dermatitis. Slight irritation through inhalation. Avoid contact with skin and eyes.
Storage:	Store product at 40-100 degrees F in a well-ventilated area.

Pricing

Quantity	Price
5 gallon	\$91.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setafash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ELECTRONICS CLEANER

Product: Electron 22 Dielectric Solvent (Same chemical as Electron Aerosol Dielectric Solvent)

Manufacturer: Ecolink Inc.

800-886-8240

Material Use:	Electron Aerosol is a non-chlorinated solvent degreaser. It is designed to remove grease, oils, and lubricants from plastic and rubber surfaces and from electrical apparatus.
Non Acceptable Uses:	Avoid contact with strong oxidizing agents.
Product Performance Data:	High dielectric strength (ASTM D-877). Dries quickly without residue.

Properties

Toxicity:	This product has an NFPA health hazard rating of 1.
Disposal:	Treat as a simple oil waste.
Flammability	110 degrees F (TCC) Flash point.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Store as a level 3 aerosol (NFPA 30B).

Pricing

Quantity	Price
12 oz. Pump spray	\$7.91
1 gallon	\$12.95
6 gallons	\$95.70

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ELECTRONICS CLEANER

Product: LPS High Purity NoFlash Cleaner (Now called: No Flash Nu Precision Contact Cleaner)

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Low residue, low moisture, no flash cleaner that is specially designed for oxygen system cleaning -- penetrates to remove light greases, oils, dirt and organic soils.
Non Acceptable Uses:	None given.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA rating of Health=2, Flammability=1
Disposal:	Do not incinerate aerosols.
Flammability	Flash point - None.
Exposure:	Avoid eye and skin contact. Prolonged or repeated skin contact can cause defatting and drying of skin. High vapor concentrations including an oxygen deficient atmosphere in enclosed areas can affect the nervous system, and can cause headaches, dizziness.
Storage:	Store in cool, dry, well-ventilated area away from ignition sources. Store aerosols below 120 degrees F and above 32 degrees F.

Pricing

Quantity	Price
15 oz.	\$23.62

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



ELECTRONICS CLEANER

Product: LPS Plastic Safe Cleaner (PSC)

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Nonconductive, noncorrosive cleaner that removes oil, grease, oxides, dirt and other foreign materials from precision mechanical and delicate electrical/electronic parts.
Non Acceptable Uses:	None given.
Product Performance Data:	Acceptable for plastics.

Properties

Toxicity:	This product has an NFPA rating of 2.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = None (TCC)
Exposure:	Avoid contact with skin and eyes. Prolonged or repeated skin contact can cause defatting and drying of skin. High vapor concentrations including an oxygen deficient atmosphere in enclosed areas can affect the nervous system, and can cause headaches.
Storage:	Store aerosols below 120 degrees F and above 32 degrees F. Store away from ignition sources in a well-ventilated area.

Pricing

Quantity	Price
18 oz	\$26.27

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



ELECTRONICS CLEANER

Product: Micropure CDF

Manufacturer: International Specialty Products (ISP)

201-628-4123

Material Use:	Circuit board cleaner used in immersion cleaning or spray washing.
Non Acceptable Uses:	None given.
Product Performance Data:	Passed the Institute for Interconnections and Packaging Electronic Circuits (ICP) Phase 2 testing.

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = 181 degrees F (TCC).
Exposure:	Avoid contact with skin and eyes. At high concentrations use with adequate ventilation.
Storage:	Keep container and vapors from the container away from heat, sparks, and flame.

Pricing

Quantity	Price
5 gallon	\$155.00
55 gallon drum	\$1273.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ELECTRONICS CLEANER

Product: MS-930-CO2 Safezone Contact RE-Nu (Replaced by MS-730 Contact Re-Nu)

Manufacturer: Miller Stephenson

203-743-4447

Material Use:	
Non Acceptable Uses:	Avoid use near spark, hot spots, welding, flames and cigarettes. Avoid use with strong acids and alkalis, reactive metals (e.g., powdered aluminum, sodium, potassium, calcium, magnesium, zinc), and strong oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	NFPA Health rating = 1.
Disposal:	Comply with federal, state and local regulations. Do not puncture cans.
Flammability:	None
Exposure:	Avoid breathing vapors and prolonged skin exposure. Use in well ventilated area.
Storage:	Do not store near source of heat or in direct sunlight where temperatures could exceed 120 degrees F, 49 degrees C. Rotate product shelf life annually.

Pricing

Quantity	Price
1-16 oz. Can. 12 16 oz. Cans.	19.70 16.95

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



ELECTRONICS CLEANER

Product: P-F-145 HP Degreaser (Now called PF-High Performance Solvent)

Manufacturer: P-T Technologies, Inc.

800-441-7874

Material Use:	Virtually any industrial application via wiping, coarse spraying or dipping, parts wiping, coarse spraying or dipping, parts washing, ultrasonic cleaners, or flow rinsing systems, used as cleaning solvent for liquid penetrants.
Non Acceptable Uses:	None given.
Product Performance Data:	Electronic and Electrical Cleaning

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = 145 degrees F (TCC).
Exposure:	Avoid contact with skin and eyes.
Storage:	Keep away from heat sources, open flames and other ignition sources.

Pricing

Quantity	Price
5 gallon	\$68.77

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup



FAA Product Substitution Guide

ELECTRONICS CLEANER

Product: Teksol EP

Manufacturer: Inland Technology, Inc.

206-383-1177

Material Use:	Cleans brakes and other auto applications, cleans motors, switches, relays, and other electrical applications, cleans circuit boards, and other electronic components, as well as other precision cleaning.
Non Acceptable Uses:	Not to be used for paint removal.
Product Performance Data:	Electrical cleaner

Properties

Toxicity:	
Disposal:	No specific disposal requirements given.
Flammability	Flash point = 112 degrees F (TCC)
Exposure:	Low order oral and dermal toxicity. Slight eye irritation. Prolonged skin exposure can cause defatting and dermatitis. Avoid contact with skin and eyes.
Storage:	Use and store away from heat, sparks, and open flame. Keep container sealed when not in use.

Pricing

Quantity	Price
6, 1 gal containers/box	\$148.50
5 gallon	\$132.06
55 gallon drum	\$921.25

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

ELECTRONICS CLEANER

Product: Ultrajet 2000 (Now called Ultrajet)

Manufacturer: Chemtronics

770-424-4488

Material Use:	High pressure duster that cleans electronics without scratching delicate surfaces.
Non Acceptable Uses:	Do not spray near open flames, red hot surfaces or other sources of ignition. Do not mix with powdered alkali and alkaline earth metals or strong oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	No specific toxicity data provided. NFPA health rating is 1.
Disposal:	Avoid water runoff. Dispose in accordance with all local, state, and federal regulations.
Flammability	Non-flammable.
Exposure:	Eye contact with liquid is irritating, may cause frostbite, harmful if inhaled.
Storage:	Store in cool, dry place away from heat, sparks and flames. Do not store in direct sunlight.

Pricing

Quantity	Price
10 ounce cans	\$9.63

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

FLUX

Product: #450-B Organic Flux #450 Flux-cored solder

Manufacturer: Litton Kester Solder

847-699-5515

Material Use:	Water soluble flux for solder touchup and repair operations on printed circuit boards. Reside is completely removable with warm water between 125-150 degrees F.
Non Acceptable Uses:	None listed.
Product Performance Data:	Flux can be left on the circuit board for extended periods of time. Provides good thermal stability and excellent wetting properties.

Properties

Toxicity:	NFPA Health rating =1; HMIS Health rating = 1.
Disposal:	Flux residue is biodegradable and may be discarded down the sanitary sewer.
Flammability	535 degrees F (COC). Auto ignition temperature > 750 degrees F.
Exposure:	Plastic gloves where necessary to avoid skin contact. Fumes during soldering may irritate mucous membrane and respiratory system. High concentrations can cause headache, dizziness, narcosis, and nausea.
Storage:	Keep containers sealed when not in use.

Pricing

Quantity	Price
1 gallon can	\$70.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

FLUX

Product: #951 SM Flux Pen

Manufacturer: Litton Kester Solder

**847-699-5515; 847-297-1600 for
information.**

Material Use:	Halogen free, non rosin organic flux. Flux is suitable for automotive, computer, telecommunications.
Non Acceptable Uses:	Avoid strong oxidizing material.
Product Performance Data:	Extremely low solids content (less than 2%) and activator system that results in practically no residue left on the circuit board.

Properties

Toxicity:	NFPA health rating =1; HMIS health rating = 1.
Disposal:	None listed.
Flammability	Flash point = 60 degrees F. Auto ignition temperature = 750 degrees F.
Exposure:	Use plastic or rubber gloves where necessary to avoid skin contact. Fumes during soldering may irritate mucous membranes. High concentrations can cause headache, dizziness, narcosis, and nausea. Wash hands after handling solder and before eating or smoking.
Storage:	Store away from sources of sulfur.

Pricing

Quantity	Price
1 pen	\$3.50

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



FLUX

Product: A.I.M. Paste Flux (477-AW)

Manufacturer: A.I.M. Products, Inc.

401-232-2772

Material Use:	Industrial applications, electronics industry, soldering paste medium.
Non Acceptable Uses:	Incompatible with oxidizing agents, alkalis. Avoid strong mineral acids, non-ferrous metals, copper and its alloys.
Product Performance Data:	

Properties

Toxicity:	NFPA Health rating = 1. Flammability rating = 1.
Disposal:	Recycle to process, if possible. Consult your local or regional authorities.
Flammability	Combustible. Flash point: N/A.
Exposure:	Do not ingest. Do not breathe dust, wear respiratory equipment if insufficient ventilation. Avoid contact wit skin and eyes.
Storage:	Keep container dry. Keep container tightly closed. Keep in a cool, well ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Pricing

Quantity	Price
10 cc syringe	\$5.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

FLUX

Product: AIM 291 AXLF

Manufacturer: A.I.M. Products, Inc.

401-232-2772

Material Use:	
Non Acceptable Uses:	
Product Performance Data:	

Properties

Toxicity:	NFPA Health rating = 1. HMIS hazard classification: B2, D2B
Disposal:	Dispose according to standard rules and regulations on for industrial waste. Keep away from ignition sources.
Flammability	Flammable liquid. NFPA flammability rating = 3.
Exposure:	Fumes may cause irritation to upper respiratory tract and eye irritation. Overexposure of fumes may cause depression of the central nervous system. Severe intoxication may lead to a coma or death.
Storage:	Store in cool, well ventilated area, away from all sources of ignition and oxidizing agents, heat, and sunlight. Do not allow the product to freeze.

Pricing

Quantity	Price
1 gallon	\$16.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

FLUX

Product: Water Soluble Cored Wire WS-475-NT

Manufacturer: A.I.M. Products, Inc.

401-232-2772

Material Use:	Cored Wire solder used for repairing electronic circuit board connections.
Non Acceptable Uses:	Incompatible with halogen trifluorides, oxidizing agents, acids, and hydrogen peroxide.
Product Performance Data:	

Properties

Toxicity:	NFPA hazard classification: not classified. HMIS classification: D2B toxic material having other effects.
Disposal:	Material should be returned to process or salvage. Dispose of only according to government rules and regulations on lead contaminated industrial waste.
Flammability	Non flammable.
Exposure:	Inhalation of fumes may cause irritation to the respiratory system and eyes. Ingestion may cause vomiting, abdominal pains. Skin contact may cause irritation.
Storage:	Store in a dry and cool area. Use any necessary equipment when handling, such as gloves, goggles, etc.

Pricing

Quantity	Price
1 pound	\$8.50

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

FLUX

Product: Water soluble solder paste WS-477S1

Manufacturer: A.I.M. Products, Inc.

401-232-2772

Material Use:	Industrial applications, electronics industry, soldering.
Non Acceptable Uses:	Incompatible with halogens and halogen trifluorides (tin).
Product Performance Data:	

Properties

Toxicity:	NFPA Health rating = 1. Flammability rating = 1.
Disposal:	Recycle to process. Consult local or regional authorities.
Flammability	Combustible. Flash point: N/A.
Exposure:	Do not ingest. Do not breathe fumes. Wear respiratory equipment if insufficient ventilation.
Storage:	Keep container dry. Keep in cool place. Carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room.

Pricing

Quantity	Price
1 gram	\$0.12

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

FREEZE SPRAY

Product: COMP-CO2LD

Manufacturer: Va-Tran Systems, Inc.

619-423-4555

Material Use:	Cools individual components on printed circuit boards -- locates weak and defective components.
Non Acceptable Uses:	None given
Product Performance Data:	Does not scratch delicate semi-conductor or precision optical surfaces.

Properties

Toxicity:	
Disposal:	No specific disposal requirements given.
Flammability	N/A
Exposure:	At concentrations in excess of 1.5% carbon dioxide may produce hyperventilation, headaches, visual disturbances, tremor, loss of consciousness and death.
Storage:	Avoid extreme temperatures

Pricing

Quantity	Price
1	\$350

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



FREEZE SPRAY

Product: Envi-Ro-Tech Duster 1671

Manufacturer: Tech Spray, Inc.

800-858-4043

Material Use:	Removes microscopic contaminates, lint, dust, metallic oxide deposits and other soils from electronic equipment, circuit boards, computers, etc.
Non Acceptable Uses:	Avoid contact with alkali metals, strong acids and bases.
Product Performance Data:	Leaves no residue.

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific requirements given.
Flammability	Flash point = None (TCC).
Exposure:	Avoid inhalation, ingestion or exposure to eyes or skin. If vomiting occurs after ingestion, the liquid can be aspirated into the lungs, which may cause chemical pneumonia.
Storage:	Keep container closed when not in use. Store in cool, well ventilated place out of direct sunlight and away from incompatible materials.

Pricing

Quantity	Price
10 oz	\$5.30

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



FREEZE SPRAY

Product:	Micro-Freeze Circuit Cooler, MCC-FRZ (Same product as Micro-Freeze Circuit Cooler)
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Manufacturer: Micro Care Chemical Corp.

203-585-7912

Material Use:	Circuit chiller used for cooling electronic components to failure trouble shoot.
Non Acceptable Uses:	Avoid use around open flames and high temperatures. Avoid use with strong acids and alkalis, reactive metals, strong oxidizing agents.
Product Performance Data:	Freeze Spray

Properties

Toxicity:	NFPA Health rating = 1. Reactivity rating = 1.
Disposal:	Dispose of according to federal, state and local requirements.
Flammability	Non-flammable
Exposure:	Avoid breathing vapors.
Storage:	Store in a clean, dry area. Temperature <125 degrees F.

Pricing

Quantity	Price
16oz can	\$14.53

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup



FREEZE SPRAY

Product: Sno Gun (Now called Sno Gun II)

Manufacturer: Va-Tran Systems, Inc.

619-423-4555

Material Use:	Dry ice particles generated by the Sno Gun penetrate the boundary layer immediately adjacent to the surface. Contaminants are dislodged and carried away in the flowing stream.
Non Acceptable Uses:	None given.
Product Performance Data:	Electrical component cleaner

Properties

Toxicity:	
Disposal:	No specific disposal requirements given.
Flammability	N/A
Exposure:	At concentrations in excess of 1.5% carbon dioxide may produce hyperventilation, headaches, visual disturbances, tremor, loss of consciousness and death.
Storage:	Avoid extreme temperatures.

Pricing

Quantity	Price
1 gun	\$1,975

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



FREEZE SPRAY

Product: Vortex Tubes

Manufacturer: Illinois Tool Works Company (ITW)

800-745-5355

Material Use:	Small, hand-held device that uses shop air (8 to 15 SCFM @ 80 - 125 psig) passed through a vortex chamber to produce a cooling effect. Outlet temperatures of approx. -30 degrees F are produced. Used to trouble shoot intermittent electronic component failure.
Non Acceptable Uses:	Supply air must be both clean and dry for proper operation of the vortex tube.
Product Performance Data:	Cooling tubes

Properties

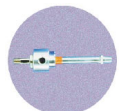
Toxicity:	N/A
Disposal:	N/A
Flammability	N/A
Exposure:	N/A
Storage:	Avoid extreme temperatures.

Pricing

Quantity	Price
Model 106	\$139
Model 208 and 308	\$200
Model 328	\$735

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



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LUBRICANT

Product: Break Free CLP, Aerosol

Manufacturer: Break-Free Inc.

714-953-1900

Material Use:	Break-Free CLP is a cleaner/lubricant/rust inhibitor for metal applications.
Non Acceptable Uses:	Not compatible with certain types of plastics. Avoid contact with strong oxidizers.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 1.
Disposal:	Recovered liquids may be reprocessed or incinerated or treated in a permitted hazardous waste management facility.
Flammability	Flash point = 201 degrees F (PMCC)
Exposure:	Avoid eye and skin contact.
Storage:	Store away from heat sources.

Pricing

Quantity	Price
4 oz	\$4.95

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



LUBRICANT

Product: CP-4617 Lubricants

Manufacturer: CPI Engineering Services, Inc.

517-496-3780

Material Use:	The CP-4617 series of synthetic lubricants are non-toxic and designed for a number of industrial food applications. The series includes penetrating lubricants, gear oils, and hydraulic oil alternatives.
Non Acceptable Uses:	Avoid excess heat.
Product Performance Data:	

Properties

Toxicity:	The product complies with FDA 21 CFR 178.3570 regarding lubricants for incidental food contact. It has an HMIS health hazard rating of 0.
Disposal:	Incinerate this product and all associated wastes in a licensed facility.
Flammability	Flash point = 320-500 degrees F (COC)
Exposure:	Avoid contact with skin and eyes.
Storage:	No specific storage requirements are given.

Pricing

Quantity	Price
55 gallon drum	\$31.25 per gallon

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

LUBRICANT

Product: FG Chain Oil (Now called FM-E ISO 100)

Manufacturer: Chevron

312-856-3926

Material Use:	Recommended for all types of chain drive equipment.
Non Acceptable Uses:	Avoid exposure to chlorine, fluorine, and other strong oxidizers.
Product Performance Data:	Oxidation resistant to reduce oil deterioration, sludge, and varnish. Tackifier additive helps retain lubricant on moving parts.

Properties

Toxicity:	NFPA Health Code Rating = 0. Does not require a hazard warning under OSHA.
Disposal:	No specific requirements. Dispose in accordance with federal, state, and local requirements.
Flammability	NFPA rating = 1. Flash point = 470 degrees F.
Exposure:	No exposure controls or personal protective equipment.
Storage:	No specific storage requirements.

Pricing

Quantity	Price
55 gallon drum	\$7.37 per gallon

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

LUBRICANT

Product: FG Greases (Now Called FM Grease EP#2)

Manufacturer: Chevron

312-856-3926

Material Use:	Suitable for plain and anti-friction bearings, slides, guides, and other moving parts. All grease applications in food processing plant where a non-EP multi-purpose grease is required.
Non Acceptable Uses:	Avoid exposure to chlorine, fluorine, and other strong oxidizers.
Product Performance Data:	Multi purpose grease that provides rust and oxidation protection

Properties

Toxicity:	NFPA Health Code Rating = 0. Does not require a hazard warning under OSHA.
Disposal:	No specific requirements. Dispose in accordance with federal, state, and local requirements.
Flammability	NFPA rating = 1. Flash point = 400 degrees F.
Exposure:	No exposure controls or personal protective equipment.
Storage:	No specific storage requirements.

Pricing

Quantity	Price
35 pound pail	\$63.27

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

LUBRICANT

Product: FG High Temp Grease (Now called FM Grease EP-NLGI2)

Manufacturer: Chevron

312-856-3926

Material Use:	Suitable for plain and anti-friction bearings, slides, guides, and other moving parts.
Non Acceptable Uses:	Avoid exposure to chlorine, fluorine, and other strong oxidizers.
Product Performance Data:	

Properties

Toxicity:	NFPA Health Code Rating = 0. Does not require a hazard warning under OSHA.
Disposal:	No specific requirements. Dispose in accordance with federal, state, and local requirements.
Flammability	NFPA rating = 1. Flash point = 415 degrees F.
Exposure:	No exposure controls or personal protective equipment.
Storage:	No specific storage requirements.

Pricing

Quantity	Price
35 pound pail	\$63.27

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

LUBRICANT

Product: FG Hydraulic Oil 68-EL (Now called Lubricating Oil FM ISO-68)

Manufacturer: Chevron

312-856-3926

Material Use:	Suitable for hydraulic and circulating systems operating at higher temperatures which require a higher oil viscosity. Excellent general purpose lubricant with SAE 20 viscosity.
Non Acceptable Uses:	Avoid exposure to chlorine, fluorine, and other strong oxidizers.
Product Performance Data:	

Properties

Toxicity:	NFPA Health Code Rating = 0. Does not require a hazard warning under OSHA.
Disposal:	No specific requirements. Dispose in accordance with federal, state, and local requirements.
Flammability	NFPA rating = 1. Flash point = 415 degrees F.
Exposure:	No exposure controls or personal protective equipment.
Storage:	No specific storage requirements.

Pricing

Quantity	Price
55 gallon drum	\$541.20

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

LUBRICANT

Product: FM -E ISO 100

Manufacturer: Chevron

312-856-3926

Material Use:	Suitable for plain and anti-friction bearings, slides, guides, and other moving parts. All grease applications in food processing plant where a non-EP multi-purpose grease is required.
Non Acceptable Uses:	Avoid exposure to chlorine, fluorine, and other strong oxidizers.
Product Performance Data:	Multi purpose grease that provides rust and oxidation protection

Properties

Toxicity:	NFPA Health Code Rating = 0. Does not require a hazard warning under OSHA.
Disposal:	No specific requirements. Dispose in accordance with federal, state, and local requirements.
Flammability	NFPA rating = 1. Flash point = 400 degrees F.
Exposure:	No exposure controls or personal protective equipment.
Storage:	No specific storage requirements.

Pricing

Quantity	Price
55 gallon drum	\$561.55

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

LUBRICANT

Product: GRS-460-F Synthetic Grease

Manufacturer: CPI Engineering Services Inc.

517-496-3780

Material Use:	GRS-460-F is a synthetic lubricant designed to meet the requirements of the food industry. The product is advertised as a multipurpose grease.
Non Acceptable Uses:	None given.
Product Performance Data:	Effective for a wide range of applications.

Properties

Toxicity:	The product complies with FDA CFR 178.3570--Lubricants with Incidental Food Contact. NFPA health rating = 0.
Disposal:	Incinerate this product and all associated wastes in a licensed facility.
Flammability	Flash point = 435 degrees F (COC). NFPA flammability rating = 1.
Exposure:	Avoid contact with skin, eyes, and clothing. Use in a well-ventilated area.
Storage:	No specific storage requirements are given.

Pricing

Quantity	Price
10 tubes per case	\$127.10

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

LUBRICANT

Product: LPS 1 Greaseless Lubricant

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Fast acting penetrant that lubricates, cleans and protects, dissolves and removes grease and oils, and displaces water on dry electrical/electronic parts.
Non Acceptable Uses:	None given.
Product Performance Data:	Greaseless lubricant

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = 175 degrees F (Setaflash)
Exposure:	Avoid contact with skin and eyes. Inhalation of high concentrations may result in headaches, dizziness, nausea and anesthetic effects.
Storage:	Store aerosols below 120 degrees F and above 32 degrees F. Store away from ignition sources in a well-ventilated area.

Pricing

Quantity	Price
1 gallon	\$19.32

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



LUBRICANT

Product: LPS 2 Industrial-Strength Lubricant

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Nondrying, oily film that loosens rusted and frozen parts, displaces moisture and provides for long lasting lubrication.
Non Acceptable Uses:	None given
Product Performance Data:	Multi-purpose lubricant

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = 175 degrees F (Setaflash).
Exposure:	Avoid contact with skin and eyes. Inhalation of high concentrations may result in headaches, dizziness, nausea and anesthetic effects.
Storage:	Store aerosols below 120 degrees F and above 32 degrees F. Store away from ignition sources in a well-ventilated area.

Pricing

Quantity	Price
1 gallon	\$21.54

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



LUBRICANT

Product: LPS Tapmatic #1 Gold Cutting Fluid

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Cutting fluid that protects and lubricates tools.
Non Acceptable Uses:	None given.
Product Performance Data:	Safe on all metals and aluminum.

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = 465 degrees F (COC).
Exposure:	Avoid contact with skin and eyes. Inhalation of high concentrations may result in headaches, dizziness, nausea and anesthetic effects.
Storage:	Store aerosols below 130 degrees F and above 32 degrees F. Store away from ignition sources in a well-ventilated area.

Pricing

Quantity	Price
16 oz.	\$6.56

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



LUBRICANT

Product: LPS Tapmatic AquaCut Cutting Fluid

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Water-based cutting fluid that extends tool life and reduces friction, heat, and tool failure.
Non Acceptable Uses:	None given.
Product Performance Data:	Use on steel, aluminum, and other metals. Prevents flash rusting.

Properties

Toxicity:	This product has an NFPA rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = None.
Exposure:	Avoid contact with skin and eyes. Inhalation of high concentrations may result in headaches, dizziness and nausea.
Storage:	Product should be stored above 20 degrees F and below 120 degrees F. Keep containers closed when not in use.

Pricing

Quantity	Price
16 oz.	\$4.85

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



LUBRICANT

Product: LPS Tapmatic Natural Cutting Fluid

Manufacturer: LPS Laboratories, Inc.

800-241-8334

Material Use:	Biodegradable cutting fluid that eliminates galling and seizing, and extends tool life.
Non Acceptable Uses:	None given.
Product Performance Data:	Save on all metals.

Properties

Toxicity:	This product has an NFPA rating of 0.
Disposal:	No specific disposal requirements given.
Flammability	Flash point = 350 degrees F (COC).
Exposure:	Minor skin irritant. Do not ingest.
Storage:	Product should be stored above 20 degrees F and below 120 degrees F. Keep containers closed when not in use.

Pricing

Quantity	Price
1 gallon	\$32.39

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



LUBRICANT

Product: Pen-T

Manufacturer: Ecolink, Inc.

800-886-8246

Material Use:	Pen-T is a petroleum-distillate-based penetrant cleaner for protecting metal from oxidation, lubricating moving parts, and freeing rusted bolts and nuts.
Non Acceptable Uses:	None given.
Product Performance Data:	Safe for most plastics and rubbers.

Properties

Toxicity:	The product has an NFPA health hazard rating of 1.
Disposal:	No specific requirements given.
Flammability	171 degrees F (TCC) Flash point.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Avoid temperature extremes.

Pricing

Quantity	Price
1 case (4-1 gallon cont.)	\$87.80
55 gallon drum	\$877.25

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

PESTICIDE

Product: Chig-Away

Manufacturer: Pierson Laboratories

816-258-2291

Material Use:	Insect Repellent.
Non Acceptable Uses:	None.
Product Performance Data:	

Properties

Toxicity:	Not hazardous.
Disposal:	If spilled, contain with chemical absorbent and dispose of in accordance with local regulations.
Flammability	Flash point: None.
Exposure:	Normal ventilation. Avoid contact with the eyes. Do not ingest.
Storage:	Keep away from extreme heat and cold.

Pricing

Quantity	Price
4 oz bottle	\$5.50

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



PESTICIDE

Product: Combat Roach and Ant Killing System

Manufacturer: The Clorox Company

510-847-6100

Material Use:	Controlling roach and ant populations.
Non Acceptable Uses:	N/A
Product Performance Data:	

Properties

Toxicity:	Non-toxic upon ingestion.
Disposal:	Suitable for landfill disposal.
Flammability	Non-flammable.
Exposure:	N/A
Storage:	None

Pricing

Quantity	Price
Box of 12. Box of 6. Box of 6 (quick-kill).	\$6.65/Cipronil \$3.10/Hydromethlynon \$4.00 Fipronil

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

PESTICIDE

Product: Combat Superbait

Manufacturer: The Clorox Company

800-843-6334

Material Use:	Bait for roach control.
Non Acceptable Uses:	None.
Product Performance Data:	

Properties

Toxicity:	N/A
Disposal:	Dispose of in accordance with local, state, and federal regulations.
Flammability	> 200 degrees F, > 93 degrees C. flash point method TCC.
Exposure:	None.
Storage:	Keep out of reach of children and pets.

Pricing

Quantity	Price
Box of 12 (quick-kill) Box of 12	\$6.00/Fipronil \$5.50/Hydromethlynon

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

PESTICIDE

Product: Cutter Evergreen Scent Insect Repellent

Manufacturer: Bayer Company

708-458-6100

Material Use:	Pest control. Transparent solid gel.
Non Acceptable Uses:	May soften or damage some synthetics such as rayon. May damage leather.
Product Performance Data:	

Properties

Toxicity:	N/A
Disposal:	Material use may be disposed of as a normal, solid, non-hazardous waste. Do not reuse container.
Flammability	None.
Exposure:	May cause skin reaction in rare cases. Avoid contact with eyes and ingestion.
Storage:	None.

Pricing

Quantity	Price
12, 1 ounce sticks	\$33.13

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

PESTICIDE

Product: Insect/arthropod repellent lotion (Now called Ultrathon)

Manufacturer: 3M

612-733-1110

Material Use:	Insect repellent.
Non Acceptable Uses:	Avoid high temperatures.
Product Performance Data:	

Properties

Toxicity:	Carcinogenicity: None; OSHA PEL: N/A
Disposal:	Disposal must be in accordance with local, state, & federal regulations.
Flammability	Flash point 200 degrees F; 93 degrees C. Flash point Method: TCC.
Exposure:	Avoid eye and skin contact.
Storage:	Store in cool, dry and well ventilated area. Keep container closed when not is use.

Pricing

Quantity	Price
2 oz tube. 12 pack/2 oz. Tubes	\$8.95 \$94.95

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



PESTICIDE

Product: Maxforce Professional Insect Control

Manufacturer: The Clorox Company

510-847-6100

Material Use:	Ant-killer (odorless, pale yellow to yellowish brown waxy mass).
Non Acceptable Uses:	None.
Product Performance Data:	

Properties

Toxicity:	N/A
Disposal:	Discard product, residue, disposal container or when in accordance with all federal, state and local regulations
Flammability	Flash point > 200 degrees F; 93 degrees C. Flash point method: cc.
Exposure:	Avoid contact with eyes and skin.
Storage:	None.

Pricing

Quantity	Price

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



PESTICIDE

Product: Permanone read-to-use

Manufacturer: Aventis Environmental Science

201-871-0771

Material Use:	Used to control pests.
Non Acceptable Uses:	Conditions to avoid: ignition sources, excessive heat. Materials to avoid: strong oxidizing and reducing agents.
Product Performance Data:	

Properties

Toxicity:	LD/50 LC/50
Disposal:	Wastes resulting from the use of this product may be disposed of on site or at an approved waste facility.
Flammability	Flash point = 115 degrees F, 46 degrees C. Flash point method: TCC.
Exposure:	Avoid inhalation, ingestion and contact with eyes.
Storage:	Keep in well ventilated area.

Pricing

Quantity	Price
6 oz Can. 48 oz. Can	\$5.75 \$204.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

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SOLVENT

Product: 3-D Degreaser

Manufacturer: Finger Lakes Chemicals

716-454-4760

Material Use:	This product is an industrial degreaser designed to replace degreasers that contain solvents such as TCA, MEK, toluene, acetone, and petroleum distillates.
Non Acceptable Uses:	Avoid strong oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 1.
Disposal:	This product is biodegradable and can be disposed of with waste oil.
Flammability:	Non-volatile fluid.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Store away from oxidizing agents.

Pricing

Quantity	Price
5 gallon container	\$92.74
55 gallon drum	\$759.25

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: ADL-1

Manufacturer: Orange-Sol

800-279-8822

Material Use:	ADL-1 is a multi-purpose cleaner used primarily for degreasing applications. Orange-Sol states that the product leaves little or no residue.
Non Acceptable Uses:	Avoid acetyl-type plastics, styrenes, and noryl. Also avoid natural, butyl, and EPDM rubbers and silicone surfaces.
Product Performance Data:	

Properties

Toxicity:	Orange-Sol states that the product is non-toxic.
Disposal:	Biodegradable compound. No special disposal requirements given.
Flammability	Combustible.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Store at room temperature.

Pricing

Quantity	Price
5 gallon container	\$59.29
55 gallon drum	\$531.79

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Bio T 200A

Manufacturer: BioChem Systems, Inc.

800-777-7870

Material Use:	This product is a low-residue cleaner/degreaser for cleaning metal and sensitive surfaces.
Non Acceptable Uses:	Avoid contact with strong oxidizing agents. Avoid use on plastics, rubbers, and Styrofoam.
Product Performance Data:	

Properties

Toxicity:	This product is bio-degradable, non-corrosive and has a NFPA health hazard rating of 1.
Disposal:	Unused portions should be disposed as ignitable waste.
Flammability	146 degrees F(COC) Flash point 121 degrees F (PMCC) Flash point.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Do not store in plastic. Store away from heat sources and oxidizing materials.

Pricing

Quantity	Price
5 gallon container	\$246.65

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: Bio T 300B

Manufacturer: BioChem Systems, Inc.

800-777-7870

Material Use:	Designed as a metal working cleaner/degreaser. Applications include hand-wiping and immersion systems.
Non Acceptable Uses:	Avoid use with rubber, plastic, and Styrofoam. Do not use in a parts washer.
Product Performance Data:	

Properties

Toxicity:	This product is biodegradable, non-corrosive and has a NFPA health hazard rating of 0.
Disposal:	Unused portions should be disposed of as ignitable waste.
Flammability	146 degrees F (COC) Flash point 130 degrees F (PMCC) Flash point.
Exposure:	Avoid eye and skin contact. Use in a well ventilated area.
Storage:	Store away from heat sources and oxidizing materials. Do not store in plastic.

Pricing

Quantity	Price
5 gallon container	\$538.13
55 gallon drum	\$2870.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: Bio T Maxx

Manufacturer: BioChem Systems, Inc.

800-777-7870

Material Use:	Bio-T-Max is a cleaner/degreaser that can be used to remove adhesives, lubricants, grease, oil from metal, porcelain, and other industrial surfaces.
Non Acceptable Uses:	Avoid contact with strong oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	Biodegradable, non-corrosive, and has an NFPA health hazard rating of 0.
Disposal:	Dispose of unused portions as ignitable waste.
Flammability	146 degrees F (COC) Flash point; 130 F(PMCC) Flash point.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Store away from heat sources and oxidizing materials. Do not store in plastic.

Pricing

Quantity	Price
4, 1 gallon cans	\$220.27
5 gallon can	\$295.46
55 gallon drum	\$1,236.21

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: Blue-Gold

Manufacturer: Modern Chemical, Inc.

501-988-1311

Material Use:	Blue-Gold is a cleaner/degreaser for cleaning parts and equipment. The product contains a rust inhibiting agent and is water-dillutable.
Non Acceptable Uses:	None known
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 1.
Disposal:	None given.
Flammability	Non-flammable
Exposure:	Avoid eye contact.
Storage:	None given

Pricing

Quantity	Price
5 gallon container	\$67.90
55 gallon drum	\$585.64

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: Breakthrough Solvent

Manufacturer: Inland Technology, Inc.

800-552-3100

Material Use:	High purity hydrocarbon that removes oil, grease, inks, wax, and other deposits. Replacement for PD-680 and chlorinated solvents.
Non Acceptable Uses:	None listed.
Product Performance Data:	

Properties

Toxicity:	
Disposal:	
Flammability	Flash point + 150 degrees F (PMCC).
Exposure:	
Storage:	

Pricing

Quantity	Price
5 gallon container	\$157.50
15 gallon container	\$404.87
55 gallon drum	\$1093.87

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Brulin 63-G

Manufacturer: Brulin Corp.

317-923-3211

Material Use:	63-G is a degreaser and decarbonizer designed for use in multi-stage and batch spray wash systems. It contains a rust inhibitor additive and is water dilutable. The product is recommended for use in water-dilutable concentrations of 3-5% and at temperatures of 130-150 F.
Non Acceptable Uses:	None given.
Product Performance Data:	

Properties

Toxicity:	The product has an HMIS health hazard rating of 1.
Disposal:	None given.
Flammability	Non-flammable.
Exposure:	Avoid eye and skin contact.
Storage:	Store between 40-120 F.

Pricing

Quantity	Price
5 gallon container	\$84.52
55 gallon drum	\$732.70

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Citrex Solvent

Manufacturer: Inland Technology, Inc.

206-383-1177

Material Use:	Used for cleaning fiberglass and epoxy and paint stripping. Excellent for sensitive metals such as aluminum and titanium.
Non Acceptable Uses:	Avoid contamination with water.
Product Performance Data:	

Properties

Toxicity:	
Disposal:	Biodegradable.
Flammability	Flash point = 144 degrees F (PMCC).
Exposure:	
Storage:	

Pricing

Quantity	Price
6, 1 gallon cans	\$344.52
5 gallon can	\$302.02
55 gallon drum	\$2476.30

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Citri-con, 0395

Manufacturer: Mantek, Inc.

214-498-1981

Material Use:	A natural solvent for maintaining and deodorizing grease traps and drains.
Non Acceptable Uses:	Avoid exposure to strong oxidizers (liquid chlorine, liquid oxygen, sodium, and calcium hypochlorite).
Product Performance Data:	

Properties

Toxicity:	NFPA health rating = 1.
Disposal:	Dispose of in accordance with all federal, state, and local regulations.
Flammability	Flash point = 142 degrees F (TCC).
Exposure:	Avoid inhalation and contact with eyes and skin. Avoid exposure to heat, sparks, and open flame.
Storage:	Store between 32 and 100 F.

Pricing

Quantity	Price
5 gallon container	\$309.90

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: DG-7 Neutral pH Degreaser

Manufacturer: Dominion Restoration, Inc.

800-835-4456

Material Use:	DG-7 is a degreaser designed for cleaning engine and industrial surfaces.
Non Acceptable Uses:	None known to Dominion Restoration.
Product Performance Data:	

Properties

Toxicity:	Dominion Restoration states that this product is not a hazardous material. No NFPA health hazard rating given.
Disposal:	No special method.
Flammability	Not given.
Exposure:	Avoid eye and skin contact.
Storage:	None given.

Pricing

Quantity	Price
5 gallon container	\$274.00
55 gallon drum	\$3157.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Dominion Rust Stain Remover

Manufacturer: Dominion Restoration, Inc.

800-835-4456

Material Use:	Rust Stain Remover is designed to remove rust stains from unpolished stone, concrete, terrazzo, and other unpolished surfaces.
Non Acceptable Uses:	Avoid glass surfaces, strong acids, and strong alkalis.
Product Performance Data:	

Properties

Toxicity:	Dominion Restoration states that this product is not a hazardous material.
Disposal:	None given.
Flammability	No flammability rating given.
Exposure:	Avoid eye and skin contact.
Storage:	Store in a cool place.

Pricing

Quantity	Price
55 gallon drum	\$1,230.00
5 gallon container	\$156.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: DR-50 Efflorescence Remover

Manufacturer: Dominion Restoration, Inc.

804-359-4400

Material Use:	Safely removes unsightly efflorescence from mortar joints and other masonry and stone surfaces.
Non Acceptable Uses:	Avoid contact with strong alkalis.
Product Performance Data:	

Properties

Toxicity:	
Disposal:	Flush down drain with water in accordance with local, state, and federal regulations.
Flammability	No flash point.
Exposure:	Prolonged contact with skin may cause skin irritation.
Storage:	Store in a cool, dry place.

Pricing

Quantity	Price
5 gallon container	\$239.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: DR-80 Metal Corrosion Control

Manufacturer: Dominion Restoration, Inc.

800-835-4456

Material Use:	DR-80 is a metal cleaner that removes rust. Dominion Restoration recommends using Dominion Rust Stain Remover to remove any rust stains that can not be cleaned with DR-80
Non Acceptable Uses:	None Given.
Product Performance Data:	

Properties

Toxicity:	Dominion Restoration states that this product is not a hazardous material.
Disposal:	None given.
Flammability	None given.
Exposure:	Avoid eye and skin contact.
Storage:	Store in a cool and dry area.

Pricing

Quantity	Price
5 gallon can	\$219.56
55 gallon drum	\$1964.43

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Ecomate FN

Manufacturer: SOQ Environmental Technology

602-966-2892

Material Use:	This product is an industrial degreaser designed to clean metal surfaces (e.g., aluminum and magnesium) that are susceptible to staining by alkaline products.
Non Acceptable Uses:	Avoid contact with oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	SOQ states that there is no health hazard associated with use of this product. The product has an NFPA health hazard rating of 0.
Disposal:	Discarded product is not a regulated RCRA-hazardous waste.
Flammability	None known.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	None given.

Pricing

Quantity	Price
5 gallon container	\$131.58

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Ecomate MSP-50

Manufacturer: SOQ Environmental Technology

602-966-2892

Material Use:	This product is an industrial degreaser designed to clean copper, brass, composite material, gold, silver, and stainless steel.
Non Acceptable Uses:	Avoid contact with oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	SOQ states that there is no health hazard associated with use of this product. This product has an NFPA health hazard rating of 0.
Disposal:	Discarded product is not a regulated RCRA-hazardous waste.
Flammability	None known.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	None given.

Pricing

Quantity	Price
1 gallon container	\$43.05
5 gallon container	\$127.72
55 gallon drum	\$1736.35

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: EF-90

Manufacturer: Cantol, Inc.

800 877-8643

Material Use:	EF-90 is a concentrated, multi-purpose cleaner. Consumers have used it to clean oil, lubricants, and dirt from engines, walls, floors and other surfaces.
Non Acceptable Uses:	None known.
Product Performance Data:	

Properties

Toxicity:	No chronic health effect known. The product has an HMIS health hazard rating of 2.
Disposal:	None given.
Flammability	No flash point (TCC).
Exposure:	Avoid eye and skin contact.
Storage:	Store at room temperature.

Pricing

Quantity	Price
8, 1 gallon containers	\$239.41

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: ENVIROSOLV 655

Manufacturer: Fine Organics Corp.

800-526-7480

Material Use:	This product is a semi-aqueous degreaser for use in machine shops and other industrial applications.
Non Acceptable Uses:	None given.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 1.
Disposal:	No specific disposal requirements given.
Flammability	Combustible; flash point at 147 degrees F (TCC).
Exposure:	Avoid eye and skin contact.
Storage:	Do not store at temperatures above 100 F.

Pricing

Quantity	Price
5 gallon container	\$165.93
55 gallon drum	\$1592.36

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: EP-921

Manufacturer: Inland Technology, Inc.

800-552-3100

Material Use:	Low volatility surface preparation solvent excellent for resin and paint application equipment cleanup.
Non Acceptable Uses:	
Product Performance Data:	

Properties

Toxicity:	
Disposal:	No specific requirements listed.
Flammability	
Exposure:	
Storage:	

Pricing

Quantity	Price
5 gallon container	\$213.85
55 gallon drum	\$1794.47

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: EPA 2000

Manufacturer: Western Chemical International, Inc.

602-990-9487

Material Use:	Cleaning compound, solvent (non viscous liquid clear color, pleasant odor)
Non Acceptable Uses:	Avoid open flames, welding arcs, or other high temperature sources. Avoid oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	
Disposal:	Waste product can be mixed with normal waste oil for burning as industrial fuel. Waste can also be recycled or reclaimed.
Flammability	Flash point 154 degrees F, 68 degrees C. Flash point Method: COC.
Exposure:	Avoid contact with eyes.
Storage:	Store in cool, dry area away from heat. Keep container tightly closed when product is not being used.

Pricing

Quantity	Price
5 gallon	\$151.70
55 gallon drum	\$932.75

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Finger Lakes 1-1-2 Ozone Saving Solvent

Manufacturer: Finger Lakes System Chemistry

716-454-4760

Material Use:	1-1-2 is designed to replace metal parts cleaning solvents such as TCA and perchloroethane. It is not water-dilutable.
Non Acceptable Uses:	None given.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 2.
Disposal:	Virgin material is not regulated under RCRA as a hazardous waste.
Flammability	Flash point > 200 degree F (TCC).
Exposure:	Avoid eye and skin contact.
Storage:	Do not store near oxidizing agents.

Pricing

Quantity	Price
1 gallon container	\$46.57
5 gallon can	\$208.08
55 gallon drum	\$2245.78

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: Formula 1000

Manufacturer: Allied Enterprise

804-489-8282

Material Use:	Formula 1000 is a general degreaser designed to remove grease, wax, grime, tar, asphalt, and soil from equipment, parts, and other items involved with maintenance operations. This product is available as a spray application, only.
Non Acceptable Uses:	Avoid contact with strong oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	The product does not contain chlorinated solvents and has an HMIS health hazard rating of 1.
Disposal:	None
Flammability	185 degrees F (TCC) flash point.
Exposure:	Avoid contact with eyes, skin, and clothing. Use in well-ventilated areas.
Storage:	Store in a cool, dry area away from heat or open flame. Do not store at temperatures over 120F.

Pricing

Quantity	Price
16 ounce can	\$4.01

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Formula P-98

Manufacturer: Allied Enterprise

804-489-8282

Material Use:	Formula P-98 is a heavy-duty degreaser used to clean heavy accumulations of oil and grease from a variety of surfaces. This product is typically used for bilge cleaning and in engine and metal-working shops.
Non Acceptable Uses:	Avoid contact with strong acids.
Product Performance Data:	

Properties

Toxicity:	This product is not a chronic hazard. No health hazard rating is listed on the MSDS or product data sheet.
Disposal:	None.
Flammability	Non-flammable.
Exposure:	Avoid contact with eyes, skin, and clothing. Use in well-ventilated areas.
Storage:	None given.

Pricing

Quantity	Price
5 gallon can	\$71.21

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Fresh Force

Manufacturer: Mantek, Inc.

310-416-9833

Material Use:	Removes greases, oils, tars, waxes, adhesives, and graffiti.
Non Acceptable Uses:	
Product Performance Data:	

Properties

Toxicity:	This product is d-limonene based and has a NFPA Health hazard rating of 1.
Disposal:	Dispose of in accordance with federal, state, and local regulations.
Flammability	Flash point = 119 degrees F (TCC)
Exposure:	Avoid skin and eye contact. Use in a well-ventilated area. No specific controls or personal protective equipment.
Storage:	Store away from heat sources. Keep containers tightly closed when not in use.

Pricing

Quantity	Price
12 cans	\$201.40
5 gallon can	\$344.40

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Grease-B-Gone

Manufacturer: The State

800-782-2436

Material Use:	Grease-B-Gone is a cleaner/degreaser as well as a drain and grease trap maintenance product. It is water-dilutable.
Non Acceptable Uses:	Avoid heat sources. The product will react violently with (tetrafluoroethylene) oxidizing materials.
Product Performance Data:	

Properties

Toxicity:	No adverse chronic effects expected. The product has an NFPA hazard health rating of 1.
Disposal:	None given.
Flammability	120 degrees F (TCC) flash point.
Exposure:	Avoid eye and skin contact.
Storage:	Store in a cool place, out of direct sunlight.

Pricing

Quantity	Price

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Harvey's Industrial Degreaser

Manufacturer: Harvey Universal USA Co.

310-328-9000

Material Use:	Ideal for parts cleaning and general maintenance. Replaces solvent degreasers.
Non Acceptable Uses:	Avoid strong acids.
Product Performance Data:	

Properties

Toxicity:	Non-toxic
Disposal:	Dispose of in accordance with all local, state, and federal regulations. This product is biodegradable and will not normally harm sewage treatment microorganisms if diluted and disposed of by sewer drain.
Flammability	No flash point.
Exposure:	May irritate dry skin from overexposure. Temporary irritation to the eyes; harmful if swallowed.
Storage:	No restrictions on storage temperatures.

Pricing

Quantity	Price

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: ID/4R

Manufacturer: Finger Lakes Chemicals

716-454-4760

Material Use:	ID/4R is designed to remove grease, oil, tar, and dirt from parts and equipment and provide corrosion protection. For use in parts washers, dip tanks, sprayers, and hand wiping applications.
Non Acceptable Uses:	Avoid strong oxidizing agents.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 2.
Disposal:	None given.
Flammability	Flash point > 200 degrees F (TCC).
Exposure:	Avoid skin and eye contact. Use in well-ventilated area.
Storage:	Store away from heat sources.

Pricing

Quantity	Price
5 gallon container	\$93.92
55 gallon drum	\$1,219.65

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: Impact II

Manufacturer: Allied Enterprise

804-489-8282

Material Use:	Used for general cleaning operations (e.g., walls and cabinets) to remove grease, oil, tar, and soil. The product is citrus based and does not contain petroleum distillates and chlorinated solvents.
Non Acceptable Uses:	None known.
Product Performance Data:	

Properties

Toxicity:	The product has an NFPA health hazard rating of 2.
Disposal:	The product is biodegradable.
Flammability	The product has a TCC flash point of 185 degrees F.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	None given.

Pricing

Quantity	Price
1 gallon can	\$7.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Industrial Cleaner

Manufacturer: Harvey Universal USA Co.

310-328-9000

Material Use:	Effective and safe for cleaning all surfaces, including restrooms, tools, machines, operating equipment, and concrete, vinyl and ceramic floors.
Non Acceptable Uses:	Avoid strong acids.
Product Performance Data:	

Properties

Toxicity:	No toxicity data supplied.
Disposal:	Product is biodegradable and will not normally harm sewage treatment microorganisms if diluted and disposed of by sewer drain.
Flammability	No flash point.
Exposure:	Material may irritate or dry skin.
Storage:	Non-hazardous for storage, according to DOT regulations.

Pricing

Quantity	Price
12, 16 oz spray bottle	\$32.52

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: ION-417

Manufacturer: Chimique, Inc.

800-225-4161

Material Use:	ION-417 is a heavy-duty cleaner/restorer for use in cleaning stone, brick, masonry, ceramic, aluminum, chrome, and other surfaces.
Non Acceptable Uses:	Avoid heat sources and strong oxidizing materials.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 2.
Disposal:	Dispose according to federal, state, and local regulations.
Flammability:	Non-combustible.
Exposure:	Avoid eye and skin contact. Use in a ventilated area.
Storage:	Separate from oxidizers. Store in a cool, dry, ventilated area.

Pricing

Quantity	Price
5 gallon container	\$64.64
55 gallon drum	\$676.65

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup



FAA Product Substitution Guide

SOLVENT

Product: ISO Prep Solvent

Manufacturer: Inland Technology, Inc.

800-552-3100

Material Use:	Petroleum solvent used for removing oil, grease, glues, inks, wax, asphalt, and other deposits.
Non Acceptable Uses:	
Product Performance Data:	

Properties

Toxicity:	
Disposal:	
Flammability	Flash point = 104 degrees F (TCC)
Exposure:	Low degree irritant to skin and eyes.
Storage:	

Pricing

Quantity	Price
5 gallon container	\$143.69

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: KRC-7X

Manufacturer: Chimique, Inc.

800-225-4161

Material Use:	KRC-7 is a heavy duty cleaner/restorer/rust inhibitor designed to remove rust, grease, and oil from metal surfaces.
Non Acceptable Uses:	This product may react with strong alkalis.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 2.
Disposal:	Virgin product should be classified as a RCRA-Hazardous waste due to its corrosive properties.
Flammability	Non-combustible.
Exposure:	Avoid eye and skin contact.
Storage:	Store in a cool, dry place. Separate from alkalis and most metals.

Pricing

Quantity	Price
55 gallon drum	\$1104.95

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: **Lectra Clean II**

Manufacturer: **CRC Industries**

215-674-4300

Material Use:	This product is a petroleum-based cleaner/degreaser. It is designed to replace chlorinated cleaners for cleaning electrical equipment.
Non Acceptable Uses:	Avoid strong oxidizing agents.
Product Performance Data:	

Properties

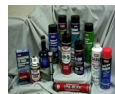
Toxicity:	The product has an NFPA health hazard rating of 2.
Disposal:	None given.
Flammability	142 degrees F (CC) flash point.
Exposure:	Avoid skin and eye contact. Use in a well-ventilated area.
Storage:	Avoid heat sources.

Pricing

Quantity	Price
4, 1 gallon containers	\$150.00
Box, 20-12oz cans	\$78.35

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: MCC-PC2 Precision Cleaner II

Manufacturer: Micro Care Chemical Corp.

800-538-0125

Material Use:	A mild, plastic safe contact cleaner. It easily rinses away light oils, dust, finger prints, and other organic and inorganic residues. Product is recommended when light contamination may be causing intermittent failure in circuit.
Non Acceptable Uses:	Avoid use with strong acids, alkalis, oxidizing agents, powdered aluminum, molten aluminum, sodium, potassium, calcium, magnesium, zinc, barium, and lithium shavings.
Product Performance Data:	Dries almost instantly.

Properties

Toxicity:	NFPA rating = 1 (confirmed by Kellie Jones, MSDS has incorrect information).
Disposal:	Dispose of in accordance with federal, state, and local regulations.
Flammability	Non flammable.
Exposure:	Avoid breathing vapors and contact with eyes.
Storage:	Ensure proper ventilation. Avoid ignition sources.

Pricing

Quantity	Price
12, 16 oz. can	\$174.44

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: Metal Medic

Manufacturer: Mantek, Inc.

310-416-9833

Material Use:	Metal medic is a polymeric rust converter and coating. The product reacts with rust and converts it into a black corrosion resistant barrier. The surface can be painted after applying this product.
Non Acceptable Uses:	Avoid strong oxidizers, silver, and alkalis.
Product Performance Data:	

Properties

Toxicity:	The product has an NFPA health hazard rating of 2.
Disposal:	Dispose of in accordance with federal, state, and local regulations.
Flammability	NFPA flammability rating = 1. Non flammable to boil (TCC)
Exposure:	Avoid eye and skin contact. Use in a well ventilated area.
Storage:	Store in a cool, dry area. Keep drum tightly closed.

Pricing

Quantity	Price
12, 1 quart containers	\$377.32

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Middleweight

Manufacturer: Buckeye International

800-321-2583, Ext. 194

Material Use:	Middleweight is a water-based cleaner/degreaser used for general cleaning operations. It has also been used as an ink remover in metal-work shops.
Non Acceptable Uses:	Avoid plexiglass and aluminum. Do not use with chlorine bleach or acids.
Product Performance Data:	

Properties

Toxicity:	The product has an NFPA health hazard rating of 1.
Disposal:	Dilute with water and adjust pH with acid to a pH below 9.0 and then flush to sanitary sewer.
Flammability	N/A
Exposure:	Avoid contact with eyes, skin, and clothing.
Storage:	Store at room temperature.

Pricing

Quantity	Price
1 gallon	\$6.80
5 gallon can	\$64.86
55 gallon drum	\$560.37

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Nature-Sol 100

Manufacturer: Brulin Corp.

317-923-3211

Material Use:	Nature-Sol 100 is an ambient temperature cleaner/degreaser for removing greases, oils, and lubricants. The product is water dilutable and is save with most metals. Drying time is similar to mineral spirits. Use in 5%-20% concentrations.
Non Acceptable Uses:	The d-limonene constituent of this product will react with rubber surfaces.
Product Performance Data:	

Properties

Toxicity:	Does not contain chlorinated or petroleum-based ingredients. Product is bio-degradable and has an HMIS hazard health rating of 1.
Disposal:	None given.
Flammability	120 degrees F, Pensky Marten Flash point; 156 degrees F COC Flash point.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Store between 40-100 F.

Pricing

Quantity	Price
55 gallon drum	\$79.31

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Oxsol 100

Manufacturer: Occidental Chemical Corp.

800-733-1165

Material Use:	Solvent, cleaning.
Non Acceptable Uses:	Avoid use near sparks, open flames, hot surfaces. Avoid use with strong oxidizing agents such as permanganates and dichromates.
Product Performance Data:	

Properties

Toxicity:	
Disposal:	Dispose of in accordance with all local, state, and federal regulations. EPA hazardous waste #D001.
Flammability	Flash point: 109 degrees F, 43 degrees C. Flash Point Method: TCC.
Exposure:	Avoid eye, skin contact. Do not breathe vapor. Do not ingest.
Storage:	Store in cool, ventilated area away from flames and incompatibles. Ground all equipment.

Pricing

Quantity	Price
5 gallon container	\$222.41
55 gallon drum	\$2583.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Pensolv Safe 100

Manufacturer: Penetone Corp.

800-631-1652

Material Use:	Electrical contact cleaning.
Non Acceptable Uses:	Avoid use near open flames and high temperatures. Avoid use with strong oxidizing agents and alkalis, and reactive metals. Do not puncture can.
Product Performance Data:	

Properties

Toxicity:	NFPA rating: Health 1; HMIS rating: 1
Disposal:	Contact local authorities to determine local reporting requirements. Non hazardous after opening. Do not puncture or incinerate can.
Flammability	None to boil; TCC
Exposure:	Avoid contact with eyes and skin. Avoid ingestion. Avoid breathing vapor.
Storage:	Keep away from heat source, open flame spark, direct sunshine. Store in cool (< 120 degrees F) area.

Pricing

Quantity	Price
12, 16 oz aerosol cans	\$99.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setafash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: PF Degreaser

Manufacturer: P-T Technologies

813-726-4644

Material Use:	This product is primarily used in the power industry. Applications include cable-splice cleaning and partwasher cleaning.
Non Acceptable Uses:	Don't mix with water. Avoid strong oxidizing agents.
Product Performance Data:	Long shelf life

Properties

Toxicity:	This product contains volatile, non-halogenated hydrocarbon. It has an NFPA health hazard rating of 1.
Disposal:	None given.
Flammability	144 degrees F TCC Flash point; combustible liquid.
Exposure:	Avoid contact with skin, eyes, and clothing.
Storage:	Store away from heat sources.

Pricing

Quantity	Price
6, 1 gallon containers	\$106.44
5 gallon container	\$77.35
55 gallon drum	\$715.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Preprite

Manufacturer: International Specialty Products (ISP)

800-622-4423

Material Use:	Preprite is a paint stripper designed as an alternative for methylene-chloride- and acetone-containing paint strippers.
Non Acceptable Uses:	Avoid using on rubber surfaces. Avoid strong oxidizing or reducing agents.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 2.
Disposal:	This product is a non-regulated RCRA waste.
Flammability	191 degrees F (CC) flash point.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Store away from heat sources.

Pricing

Quantity	Price
5 gallon container	\$168.62

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Printsolve Ink Remover

Manufacturer: International Specialty Products (ISP)

800-622-4423

Material Use:	This product is designed to remove water-based, solvent-based, and UV-cured inks from metal surfaces.
Non Acceptable Uses:	Avoid strong oxidizing or reducing agents.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 1.
Disposal:	This product is a non-regulated RCRA waste.
Flammability	181 degrees F (CC) flash point.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	Store away from heat sources

Pricing

Quantity	Price
55 gallon drum	\$1,263.99

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Replacetone

Manufacturer: Qual-Tech Enterprises, Inc.

415-467-7887

Material Use:	This product is designed as a substitute for acetone, MEK, and methylene chloride in painting and cleaning operations. It is available in concentrate and diluted form.
Non Acceptable Uses:	Avoid strongly acidic materials and oxidizers.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 0.
Disposal:	Biodegradable. See attached technical data sheet for more information.
Flammability	Non-flammable; flash point > 572 degrees F (Setaflash CC)
Exposure:	Avoid eye and skin contact.
Storage:	None given.

Pricing

Quantity	Price

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: RIP-TIDE

Manufacturer: Ecolink, Inc.

800-886-8240

Material Use:	Rip-Tide is a citrus-based aqueous solvent designed to remove grease, oil, and water-based paints.
Non Acceptable Uses:	None known.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 1.
Disposal:	100% bio-degradable.
Flammability	Non-flammable.
Exposure:	Avoid eye and skin contact.
Storage:	Store in a cool, dry area.

Pricing

Quantity	Price
4, 1 gallon containers	\$162.96
6 gallon container	\$140.74
55 gallon drum	\$960.44

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaf flash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Safety Strip 1000

Manufacturer: Brulin Corp.

317-923-3211

Material Use:	Safety Strip 1000 is a non-chlorinated paint stripper.
Non Acceptable Uses:	Avoid contact with strong oxidizers.
Product Performance Data:	

Properties

Toxicity:	This product has an HMIS health hazard rating of 2.
Disposal:	None given.
Flammability	Flash point > 200 degrees F.
Exposure:	Avoid skin and eye contact. Use in a well-ventilated area.
Storage:	Store between 40-120 F.

Pricing

Quantity	Price
5 gallon can	\$124.50
55 gallon drum	\$1,646.77

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaf flash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Shopmaster

Manufacturer: Buckeye International

800-321-2583, Ext. 194

Material Use:	Shopmaster is a heavy-duty degreaser that also serves as a rust and corrosion inhibitor. Typical uses of this product include electrical and engine parts cleaning and the cleaning of non-conductive appliances.
Non Acceptable Uses:	Do not mix with chlorine bleach.
Product Performance Data:	

Properties

Toxicity:	The product has an NFPA health hazard rating of 0.
Disposal:	Dilute with water and adjust pH with acid to a pH below 9.0 and then flush to sanitary sewer.
Flammability	N/A
Exposure:	Avoid contact with eyes, skin, and clothing.
Storage:	Store at room temperature.

Pricing

Quantity	Price
1 gallon	\$10.80
5 gallon can	\$78.10
55 gallon drum	\$839.48

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Solution 2000

Manufacturer: Envirosan Products, Ltd.

214-438-0211

Material Use:	Solution 2000 is a general purpose cleaner. Typical applications include floors, ceramic tile, painted walls and woodwork.
Non Acceptable Uses:	None given.
Product Performance Data:	

Properties

Toxicity:	This product has a NFPA health hazard rating of 1.
Disposal:	None given.
Flammability	Flash point > 215 degrees F.
Exposure:	Avoid eye and skin contact.
Storage:	Store between 35-120 degrees F. Room temperature preferred.

Pricing

Quantity	Price
2, 2/1 gallon container	\$160.00

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: Super Agitene Concentrate Cleaning Compound

Manufacturer: Graymills Corp.

312-477-4100

Material Use:	Effective multiple-duty cleaner for use on grease, motor oil, cutting oil, water soluble oils, and gummy deposits. Can be used for removing organic and inorganic soils.
Non Acceptable Uses:	Avoid use with strong acids, strong oxidizers, such as liquid chlorine, concentrated oxygen, sodium hypochlorite, and calcium hypochlorite.
Product Performance Data:	

Properties

Toxicity:	NFPA hazard rating = 1.
Disposal:	Discard any product, residue, and container in accordance with all federal, state and local regulations.
Flammability	Flash point = 110 degrees F, 43 degrees C. (TCC) NFPA Flammability rating = 2.
Exposure:	Avoid contact with eyes and skin. Avoid inhalation of vapors.
Storage:	Store in a cool area away from heat or open flame.

Pricing

Quantity	Price
5 gallon can	\$119.22
50 gallon drum	\$1095.22

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide



SOLVENT

Product: Super Big Tex

Manufacturer: Mantek, Inc.

214-498-1981

Material Use:	Super Big Tex is a general purpose cleaner/degreaser designed to remove grease, carbon, and waxy deposits from industrial and food plant equipment.
Non Acceptable Uses:	Avoid glass and aluminum surfaces.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 1.
Disposal:	No specific instructions given.
Flammability	Non-flammable.
Exposure:	Avoid skin and eye contact. Use in a well-ventilated area.
Storage:	Store between 32 - 120 degrees F.

Pricing

Quantity	Price
5 gallon container	\$162.37

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setafash; PMCC- Pensky-Martin Closed Cup

SOLVENT

Product: Topsall #30

Manufacturer: Stutton Corporation

800-357-1327

Material Use:	The product is recommended by the manufacturer as a general cleaner and as a possible substitute for 1,1,1-trichloroethane.
Non Acceptable Uses:	Avoid contact with strong acids.
Product Performance Data:	

Properties

Toxicity:	Manufacturer states that the product is non-toxic.
Disposal:	None given.
Flammability	No flash point to 212 degrees F (CC)
Exposure:	Prolonged contact with skin may result in irritation excessive breathing of airborne mist may irritate nose, throat, or upper-respiratory tract.
Storage:	Store away from strong acids.

Pricing

Quantity	Price
5 gallon container	\$86.54
55 gallon drum	\$986.56

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: TURCO 6088A

Manufacturer: Turco Products, Inc.

714-890-3600

Material Use:	This product is a paint remover/thinner. It is a replacement for products containing methylene chloride, chlorinated solvents, phenols, chromates, ammonia and amines and can be used on aluminum, mild steel, cast iron, cadmium plated steel, and titanium.
Non Acceptable Uses:	Do not use on high strength steels or magnesium.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 2.
Disposal:	Keep this product out of storm water and sewer drains and navigable waters.
Flammability	Flash point = 200 degrees F (PM).
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	No specific storage requirements given.

Pricing

Quantity	Price

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

SOLVENT

Product: Turco Liquid Sprayeze-LT

Manufacturer: Turco Products, Inc.

770-939-8332

Material Use:	This product is designed to remove shop soils, lubricants, and oils from metal surfaces. The product can be used in spray applications as well as in dip tanks.
Non Acceptable Uses:	Avoid contact with strong acids.
Product Performance Data:	

Properties

Toxicity:	This product has an NFPA health hazard rating of 2.
Disposal:	Keep out of stormwater and sewer drains and navigable waters.
Flammability	Non flammable. NFPA flammability rating = 0.
Exposure:	Avoid eye and skin contact. Use in a well-ventilated area.
Storage:	No specific storage requirements.

Pricing

Quantity	Price
55 gallon drum	\$893.04

Test Standards--TCC- Tagliabue Closed Cup; COC- Cleveland Open Cup; HMIS-Hazardous Materials Information System; Setaflash; PMCC- Pensky-Martin Closed Cup

FAA Product Substitution Guide

CONSTRUCTION PRODUCTIONS

Product: Cellulose Insulation

Manufacturer: Erie Energy Products

814-454-2828

Website:

Recycled

EPA Recommended Recycled Content:

25%

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Carpet

Manufacturer: Environmental Building Supplies **503-222-3881**

Website: www.Ecohaus.com

Recycled

EPA Recommended Recycled Content:	25-100% Post Consumer
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Product Recycled Content (post consumer):	76-100%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price
per Square foot	\$1.33-3.22

CONSTRUCTION PRODUCTS

Product: Carpet

Manufacturer: Talisman Mills, Inc.

800-482-5466

Website: www.Talismanmills.com

Recycled

EPA Recommended Recycled Content:	25-100% Post Consumer
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Product Recycled Content (post consumer):	100%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price
per Square yard	\$13.63-23.73

CONSTRUCTION PRODUCTS

Product: Carpet Cushion

Manufacturer: DURA Undercushions, 800-295-4126
Ltd.

Website: www.Duracoustic.com

Recycled

EPA Recommended Recycled Content:	60-90% Post Consumer
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Product Recycled Content (post consumer):	100%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price
per Square yard	\$2.60-5.45

CONSTRUCTION PRODUCTS

Product: Cellulose Insulation

Manufacturer: Dow Chemical CIG

800-441-4369

Website:

Recycled

EPA Recommended Recycled Content:

25%

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Cellulose Insulation

Manufacturer: US Greenbrier

800-228-0024

Website:

Recycled

EPA Recommended Recycled Content:

25%

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Coal Fly Ash

Manufacturer: ISG Resources - Texas

979-255-2513

Website: www.ISGresources.com

Recycled

EPA Recommended Recycled Content:

Variable Post Industrial

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

100%

Pricing

Quantity	Price
per Ton	\$35-50.00

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Coal Fly Ash

Manufacturer: Nebraska Ash Company

402-434-1779

Website: no website

Recycled

EPA Recommended Recycled Content:

Variable Post Industrial

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

100%

Pricing

Quantity	Price
per Ton	\$25-30.00

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: **Fiberglass Insulation**

Manufacturer: Knauf Fiberglass

317-398-4434

Website:

Recycled

**EPA Recommended Recycled
Content:**

25%

**Product Recycled Content
(post consumer):**

25%

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Floor Tiles

Manufacturer: Durable Corporation

800-537-1603

Website: www.Durablecorp.com

Recycled

EPA Recommended Recycled Content:

90-100% Post Consumer

Product Recycled Content (post consumer):

97%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
per Square foot	\$6.00-7.00

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Floor Tiles

Manufacturer: Premier Tiles

732-438-1356

Website: www.Premiertiles.com

Recycled

EPA Recommended Recycled Content:	90-100% Post Consumer
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Product Recycled Content (post consumer):	100% in the noncolor and 80% in the color tiles
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price
per Square foot	\$1.45-2.75

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: **Flowable Fill**

Manufacturer: ISG Resources - Iowa

641-969-4501

Website: www.ISGresources.com

Recycled

EPA Recommended Recycled Content:

Variable Post Industrial

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

100%

Pricing

Quantity	Price
per Yard	\$40.00

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: **Ground Granulated Blast Furnace Slag**

Manufacturer: Holcim

770-622-9220

Website: www.Holcim.com

Recycled

EPA Recommended Recycled Content:

Variable Post Industrial

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

100%

Pricing

Quantity	Price
per Ton	\$72.00

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Laminated Paperboard

Manufacturer: Homasote Company

800-257-9491

Website: www.Homasote.com

Recycled

EPA Recommended Recycled Content:

100% Post Consumer

Product Recycled Content (post consumer):

100%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
One board	\$19.00

CONSTRUCTION PRODUCTS

Product: Latex Paint

Manufacturer: Amazon Environmental, 800-566-2396
Inc.

Website: www.nvo.com/amazon

Recycled

EPA Recommended Recycled Content:	20-100% Post Consumer
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Product Recycled Content (post consumer):	80-99%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price
5 gallon pail	\$35.00

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Latex Paint

Manufacturer: NU_BLEND Paints, Inc.

513-200-0847

Website: www.Nublendpaints.com

Recycled

EPA Recommended Recycled Content:

20-100% Post Consumer

Product Recycled Content (post consumer):

100%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
5 gallon pail	\$42.50

CONSTRUCTION PRODUCTS

Product: Patio Blocks

Manufacturer: Dodge-Regupol, Inc.

859-268-9199

Website: www.Regupol.com

Recycled

EPA Recommended Recycled Content:

90-100% Post Consumer

Product Recycled Content (post consumer):

100%

Product Recycled Content (post industrial):

Pricing

Quantity

Sold per tile or per roll

Price

No price given, only estimates per job

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Patio Blocks

Manufacturer: Enviroform Recycled Products, Inc.

315-789-1810

Website: www.Enviroform.com

Recycled

EPA Recommended Recycled Content:

90-100% Post Consumer

**Product Recycled Content
(post consumer):**

98-99%

**Product Recycled Content
(post industrial):**

Pricing

Quantity

per Block

Price

\$12-14.00

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Restroom Dividers

Manufacturer: Santana Products, Inc.

800-368-5002

Website: www.Santanaproducts.com

Recycled

EPA Recommended Recycled Content:

20-100% Post Consumer

Product Recycled Content (post consumer):

>10%

Product Recycled Content (post industrial):

Pricing

Quantity

Price

per Stall not including shipping or installation

\$700

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Restroom Dividers

Manufacturer: Yemm and Hart

573-783-5434

Website: www.Yemmhart.com

Recycled

EPA Recommended Recycled Content:

20-100% Post Consumer

Product Recycled Content (post consumer):

100%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
per Stall	\$800-1200

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Rockwool Insulation

Manufacturer: Isolatek International

973-347-1200

Website:

Recycled

EPA Recommended Recycled Content:

75%

Product Recycled Content (post consumer):

75%

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: Rockwool Insulation

Manufacturer: Thermafiber

888-834-2371

Website:

Recycled

EPA Recommended Recycled Content:

75%

Product Recycled Content (post consumer):

85%

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: **Structural Fiberboard**

Manufacturer: Homasote Company

800-257-9491

Website: www.Homasote.com

Recycled

**EPA Recommended Recycled
Content:**

**Product Recycled Content
(post consumer):**

100%

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price
One board	\$19.00

FAA Product Substitution Guide

Affirmative Procurement

CONSTRUCTION PRODUCTS

Product: **Structural Fiberboard**

Manufacturer: Knight-Celotex
Fiberboard

800-535-4088

Website: www.BPB-celotex.com

Recycled

**EPA Recommended Recycled
Content:**

**Product Recycled Content
(post consumer):**

95% bagasse and wood
chips

**Product Recycled Content
(post industrial):**

Pricing

Quantity

95 piece units

Price

No price given, only
estimates per job

FAA Product Substitution Guide

Affirmative Procurement

LANDSCAPING PRODUCTS

Product: Hydraulic & Cellulose Mulch

Manufacturer: Profile Products, LLC

847-215-1144

Website: www.Terra-mulch.com/hydraulicmulches

Recycled

EPA Recommended Recycled Content:	100%
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Product Recycled Content (post consumer):	90-100%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price
40 lbs of Cellulose & Wood fibre	\$6.00/\$8.00

FAA Product Substitution Guide

Affirmative Procurement

LANDSCAPING PRODUCTS

Product: **Lawn & Garden Edging**

Manufacturer: American Ecoboard, Inc. **800-567-9851**

Website: www.Americanecoboard.com

Recycled

EPA Recommended Recycled Content:	30-100%
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Product Recycled Content (post consumer):	80%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price
3x8'	\$4.28/ foot

LANDSCAPING PRODUCTS

Product: Plastic Lumber Landscaping

Manufacturer: American Ecoboard, Inc. 800-567-9851

Website: www.Americanecoboard.com

Recycled

EPA Recommended Recycled Content:	30-100%
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Product Recycled Content (post consumer):	80%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

LANDSCAPING PRODUCTS

Product: Soaker Hose

Manufacturer: Fiskars

800-500-4849

Website: www.Fiskars.com

Recycled

EPA Recommended Recycled Content:

60-75%

Product Recycled Content (post consumer):

65%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
100 feet	\$41.77

FAA Product Substitution Guide

Affirmative Procurement

LANDSCAPING PRODUCTS

Product: Tree Ring Mats

Manufacturer: Fiskars

800-500-4849

Website: www.Fiskars.com

Recycled

EPA Recommended Recycled Content:	30-100% Post Consumer
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Product Recycled Content (post consumer):	80%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price
30 inches	\$25-30.00

LANDSCAPING PRODUCTS

Product: **Watering Hose**

Manufacturer: Teknor Apex Company

401-725-8000

Website: www.Teknorapex.com

Recycled

EPA Recommended Recycled Content:

60-65% Post Consumer

Product Recycled Content (post consumer):

60%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
50 feet	\$17-20.00

MISCELLANEOUS PRODUCTS

Product:	Absorbents
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Manufacturer: Castle Wood Products **208-368-0242**

Website:

Recycled

EPA Recommended Recycled Content:	Paper-100%; Textile-95-100%; Plastic-25-100%;
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Product Recycled Content (post consumer):	100%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price

MISCELLANEOUS PRODUCTS

Product: Absorbents

Manufacturer: Dawg, Inc.

203-598-3294

Website:

Recycled

EPA Recommended Recycled Content:

Paper-100%; Textile-95-100%; Plastic-25-100%;

Product Recycled Content (post consumer):

40-100% depending on the product.

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product:	Absorbents
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Manufacturer: Fiberwood, Inc. **916-387-9754**

Website:

Recycled

EPA Recommended Recycled Content:	Paper-100%; Textile-95-100%; Plastic-25-100%;
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Product Recycled Content (post consumer):	80% post-recycled newsprint
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price

MISCELLANEOUS PRODUCTS

Product: **Awards and Plaques**

Manufacturer: **Amazing Recycled
Products**

800-241-2174

Website:

Recycled

**EPA Recommended Recycled
Content:**

Glass-75-100%; Wood-
100%; Paper-40-100%;

**Product Recycled Content
(post consumer):**

75-100%

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: **Awards and Plaques**

Manufacturer: Future Solutions

303-460-7007

Website:

Recycled

EPA Recommended Recycled Content:

Glass-75-100%; Wood-100%; Paper-40-100%;

Product Recycled Content (post consumer):

40% post-consumer newspaper

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: Awards and Plaques

Manufacturer: Signature Marketing

860-658-7172

Website:

Recycled

EPA Recommended Recycled Content:

Glass-75-100%; Wood-100%; Paper-40-100%;

**Product Recycled Content
(post consumer):**

50-95% depending on product type

**Product Recycled Content
(post industrial):**

Pricing

Quantity

Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: Industrial Drums

Manufacturer: Sonoco

630-620-3414

Website: www.greif.com

Recycled

EPA Recommended Recycled Content:

Steel-16%; HDPE-30-100%; Paper-100%

Product Recycled Content (post consumer):

100% post consumer fiberboard

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: Industrial Drums

Manufacturer: U.S. Coexcell

419-897-9110

Website: www.uscoexcell.com

Recycled

EPA Recommended Recycled Content:

Steel-16%; HDPE-30-100%; Paper-100%

Product Recycled Content (post consumer):

25%

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: **Manual Grade Strapping**

Manufacturer: Illinois Toolworks (ITW) **847-657-4232**

Website:

Recycled

EPA Recommended Recycled Content:	PET-50-80%; PP-10-40%; Steel 16-67%
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Product Recycled Content (post consumer):	100%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: **Manual Grade Strapping**

Manufacturer: Strapack

800-475-5006

Website:

Recycled

**EPA Recommended Recycled
Content:**

PET-50-80%; PP-10-
40%; Steel 16-67%

**Product Recycled Content
(post consumer):**

40%

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: Mats

Manufacturer: Durable Corporation

800-537-1603

Website: www.Durablecorp.com

Recycled

EPA Recommended Recycled Content:

Rubber-75-100%; Plastic
10-100%; Composite

**Product Recycled Content
(post consumer):**

100%

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: Mats

Manufacturer: Eagle Recycled Products

800-448-4409

Website:

Recycled

EPA Recommended Recycled Content:

Rubber-75-100%; Plastic
10-100%; Composite

**Product Recycled Content
(post consumer):**

Up to 100%

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: Mats

Manufacturer: FlexStake Inc.

941-481-3539

Website:

Recycled

EPA Recommended Recycled Content:

Rubber-75-100%; Plastic
10-100%; Composite

**Product Recycled Content
(post consumer):**

99%

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: Pallets

Manufacturer: Cadillac Products

248-879-5000

Website:

Recycled

EPA Recommended Recycled Content:

Wood-95-100%; Plastic-100%; Paperboard-50%

Product Recycled Content (post consumer):

50% HDPE

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: **Pallets**

Manufacturer: Damage Prevention
 Products

707-747-5503

Website:

Recycled

**EPA Recommended Recycled
Content:**

Wood-95-100%; Plastic-
100%; Paperboard-50%

**Product Recycled Content
(post consumer):**

100% post-consumer
corrugated waste

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: **Pallets**

Manufacturer: Eagle Recycled Products **800-448-4409**

Website:

Recycled

EPA Recommended Recycled Content:	Wood-95-100%; Plastic-100%; Paperboard-50%
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Product Recycled Content (post consumer):	100%
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Product Recycled Content (post industrial):	
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Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: **Pallets**

Manufacturer: Earth Safe Inc.

508-420-5681

Website:

Recycled

EPA Recommended Recycled Content:

Wood-95-100%; Plastic-100%; Paperboard-50%

Product Recycled Content (post consumer):

100%

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: Pallets

**Manufacturer: MBX Packaging
Specialists**

715-845-1171

Website:

Recycled

**EPA Recommended Recycled
Content:**

Wood-95-100%; Plastic-
100%; Paperboard-50%

**Product Recycled Content
(post consumer):**

100% HDPE

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: Pallets

Manufacturer: US Plastic and Lumber

215-283-9600

Website: www.carefree-xteriors.com

Recycled

EPA Recommended Recycled Content:

Wood-95-100%; Plastic-100%; Paperboard-50%

Product Recycled Content (post consumer):

100% HDPE

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: **Signage**

Manufacturer: Gopher Sign Company

800-383-3156

Website:

Recycled

EPA Recommended Recycled Content:

Plastic Signs & Posts 80-100%; Aluminum 25%;

Product Recycled Content (post consumer):

100 % Plastic

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

MISCELLANEOUS PRODUCTS

Product: **Signage**

Manufacturer: US Plastic Lumber
 Company

312-491-2500

Website:

Recycled

**EPA Recommended Recycled
Content:**

Plastic Signs & Posts 80-
100%;Aluminum 25%;

**Product Recycled Content
(post consumer):**

100 % HDPE

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

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NONPAPER OFFICE PRODUCTS

Product: **Desk Accessories - Pencil Cup Holder**

Manufacturer: Quill Corporation

800-789-8040

Website: www.Quill.com

Recycled

EPA Recommended Recycled Content:	25-80%
------------------------------------------	--------

Product Recycled Content (post consumer):	25%
--------------------------------------------------	-----

Product Recycled Content (post industrial):	
----------------------------------------------------	--

Pricing

Quantity	Price
1 holder	\$2.35

NONPAPER OFFICE PRODUCTS

Product: Desk Accessories - Plastic Sorter

Manufacturer: Quill Corporation

800-789-8040

Website: www.Quill.com

Recycled

EPA Recommended Recycled Content:	25-80%
------------------------------------------	--------

Product Recycled Content (post consumer):	25%
--------------------------------------------------	-----

Product Recycled Content (post industrial):	
----------------------------------------------------	--

Pricing

Quantity	Price
1 Sorter	\$15.99

NONPAPER OFFICE PRODUCTS

Product:	newsprint
-----------------	------------------

Manufacturer:	Atlantic Newsprint Company	905-708-1311
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Website:

Recycled

EPA Recommended Recycled Content:	
------------------------------------------	--

Product Recycled Content (post consumer):	100%
--------------------------------------------------	------

Product Recycled Content (post industrial):	
----------------------------------------------------	--

Pricing

Quantity	Price

NONPAPER OFFICE PRODUCTS

Product: **Newsprint**

Manufacturer: Inland Empire Paper
 Company

509-924-1911

Website:

Recycled

**EPA Recommended Recycled
Content:**

**Product Recycled Content
(post consumer):**

Up to 40%.

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

NONPAPER OFFICE PRODUCTS

Product:	Newsprint
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Manufacturer: North Pacific Paper **800-426-0866**

Website:

Recycled

EPA Recommended Recycled Content:	
------------------------------------------	--

Product Recycled Content (post consumer):	Two kinds-25% post consumer fiber content; 40% post consumer fiber content
--------------------------------------------------	-------------------------------------------------------------------------------

Product Recycled Content (post industrial):	
----------------------------------------------------	--

Pricing

Quantity	Price

NONPAPER OFFICE PRODUCTS

Product: Plastic Envelopes

Manufacturer: OrderSuppliesOnline.co
m

866-654-9797

Website: www.Ordersuppliesonline.com

Recycled

EPA Recommended Recycled Content:	25-35%
------------------------------------------	--------

Product Recycled Content (post consumer):	unknown
--------------------------------------------------	---------

Product Recycled Content (post industrial):	unknown
----------------------------------------------------	---------

Pricing

Quantity	Price
9x12"	33.98/pack

FAA Product Substitution Guide

Affirmative Procurement

NONPAPER OFFICE PRODUCTS

Product: Plastic Office Recycling Containers

Manufacturer: OrderSuppliesOnline.co
m 866-654-9797

Website: www.Ordersuppliesonline.com

Recycled

EPA Recommended Recycled Content:	20-100%
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Product Recycled Content (post consumer):	unknown
--------------------------------------------------	---------

Product Recycled Content (post industrial):	unknown
----------------------------------------------------	---------

Pricing

Quantity	Price
23 gallon	\$38.30

NONPAPER OFFICE PRODUCTS

Product: Printer Ribbons

Manufacturer: B. Brown & Associates

800-476-9512

Website:

Recycled

EPA Recommended Recycled Content:

Standards not published

Product Recycled Content (post consumer):

100%

Product Recycled Content (post industrial):

Pricing

Quantity	Price

FAA Product Substitution Guide

Affirmative Procurement

NONPAPER OFFICE PRODUCTS

Product: Recycled Cartridges & Toner

Manufacturer: Quill Corporation

800-789-8040

Website: www.Quill.com

Recycled

EPA Recommended Recycled Content:

re-manufactured

Product Recycled Content (post consumer):

re-manufactured

Product Recycled Content (post industrial):

Pricing

Quantity	Price
Various	\$39.98-159.00

FAA Product Substitution Guide

Affirmative Procurement

NONPAPER OFFICE PRODUCTS

Product: Recycled Plastic Clipboards

Manufacturer: Quill Corporation

800-789-8040

Website: www.Quill.com

Recycled

EPA Recommended Recycled Content:	50-90%
------------------------------------------	--------

Product Recycled Content (post consumer):	15%
--------------------------------------------------	-----

Product Recycled Content (post industrial):	85%
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Pricing

Quantity	Price
1 clipboard	\$3.20

FAA Product Substitution Guide

Affirmative Procurement

NONPAPER OFFICE PRODUCTS

Product: Recycled Plastic Portfolios

Manufacturer: Greenco Products

802-254-7605

Website: www.Greencoproducts.com

Recycled

EPA Recommended Recycled Content:

90%

Product Recycled Content (post consumer):

90-100%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
1 lever clip	\$1.99

FAA Product Substitution Guide

Affirmative Procurement

NONPAPER OFFICE PRODUCTS

Product: Recycled Pressboard Data Binders

Manufacturer: OrderSuppliesOnline.co 866-654-9797
m

Website: www.Ordersuppliesonline.com

Recycled

EPA Recommended Recycled Content:	20-50%
------------------------------------------	--------

Product Recycled Content (post consumer):	30-50%
--------------------------------------------------	--------

Product Recycled Content (post industrial):	
----------------------------------------------------	--

Pricing

Quantity	Price
1 binder	\$3.16-4.10

NONPAPER OFFICE PRODUCTS

Product: Recycled Trashbags

Manufacturer: OrderSuppliesOnline.co 866-654-9797
m

Website: www.Ordersuppliesonline.com

Recycled

EPA Recommended Recycled Content:	10-100%
------------------------------------------	---------

Product Recycled Content (post consumer):	30%
--------------------------------------------------	-----

Product Recycled Content (post industrial):	70%
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Pricing

Quantity	Price
31-33 gallon	\$18.99

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PAPER AND PAPER PRODUCTS

Product: 100% Cotton Laser Envelopes

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

30-60%

Product Recycled Content (post consumer):

Unknown

Product Recycled Content (post industrial):

Unknown

Pricing

Quantity	Price
100 count	\$12.89

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: 100% Cotton Laser Paper

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

30-60%

Product Recycled Content (post consumer):

Unknown

Product Recycled Content (post industrial):

Unknown

Pricing

Quantity	Price
500 sheets -8.5x11"	\$22.05

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: Aspen Xerographic Paper

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

30%

Product Recycled Content (post consumer):

30%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
500 sheets - 8.5x11"	\$5.19

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: EarthWise Hanging File Folders

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

60%

Product Recycled Content (post consumer):

30%

Product Recycled Content (post industrial):

70%

Pricing

Quantity	Price
25 per box- letter size	\$7.49

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: EarthWise Manila File Folders

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:	30%
------------------------------------------	-----

Product Recycled Content (post consumer):	30%
--------------------------------------------------	-----

Product Recycled Content (post industrial):	70%
----------------------------------------------------	-----

Pricing

Quantity	Price
100 per box	\$12.03

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: Fastfold R-Kive Storage Files

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

25-100%

Product Recycled Content (post consumer):

60%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
12 per carton	\$2.79

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: **Headstrip Style Pads**

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

**EPA Recommended Recycled
Content:**

30-60%

**Product Recycled Content
(post consumer):**

30%

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price
50 sheets -8.5x14"	\$13.73

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: Index cards -white

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

30%

Product Recycled Content (post consumer):

30%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
100 per pack-3x5"	\$0.43

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: NatureWise Bulk Mailing Boxes

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

75-100%

Product Recycled Content (post consumer):

30-65%

Product Recycled Content (post industrial):

35-70%

Pricing

Quantity	Price
12 per bundle - 12x12x12"	\$19.08

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: Oxford Economical Pressboard
Report Covers

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:	20-50%
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Product Recycled Content (post consumer):	30%
--------------------------------------------------	-----

Product Recycled Content (post industrial):	
----------------------------------------------------	--

Pricing

Quantity	Price
8.5x11"	\$1.39

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: **Padded Style Pads**

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

5-15%

Product Recycled Content (post consumer):

30%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
50 sheets - 8.5x11"	\$8.60

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: Recycled Continuous Form Paper

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:	60%
------------------------------------------	-----

Product Recycled Content (post consumer):	40%
--------------------------------------------------	-----

Product Recycled Content (post industrial):	60%
----------------------------------------------------	-----

Pricing

Quantity	Price
2500 blank forms	\$30.09

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: Recycled Paper Towels

Manufacturer: Javits-Wagner-O'Day
Program

800-433-2304

Website: www.JWOD.com

Recycled

EPA Recommended Recycled Content:

80%

Product Recycled Content (post consumer):

40-60%

Product Recycled Content (post industrial):

40-60%

Pricing

Quantity	Price
2400 count	\$18.88

PAPER AND PAPER PRODUCTS

Product: Recycled Sanitary Tissue Paper

Manufacturer: Javits-Wagner-O'Day
Program

800-433-2304

Website: www.JWOD.com

Recycled

EPA Recommended Recycled Content:

20-60%

Product Recycled Content (post consumer):

30%

Product Recycled Content (post industrial):

70%

Pricing

Quantity	Price
96 rolls	\$34.79

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: **Second Nature Wireless Notebooks**

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

60%

Product Recycled Content (post consumer):

30%

Product Recycled Content (post industrial):

30%

Pricing

Quantity	Price
100 sheets - 8.5x11"	\$3.65

FAA Product Substitution Guide

Affirmative Procurement

PAPER AND PAPER PRODUCTS

Product: Storage Boxes with String and Button Closures

Manufacturer: Boise Cascade

800-563-1562

Website:

Recycled

EPA Recommended Recycled Content:

80%

Product Recycled Content (post consumer):

59%

Product Recycled Content (post industrial):

Pricing

Quantity	Price
10x12x24" - letter size	\$6.10

FAA Product Substitution Guide

Affirmative Procurement

PARK AND RECREATION PRODUCTS

Product: Picnic Tables & Benches

Manufacturer: Barco Products Company 800-757-5460

Website: www.Rubberns.com

Recycled

EPA Recommended Recycled Content:	90-100%
------------------------------------------	---------

Product Recycled Content (post consumer):	100%
--------------------------------------------------	------

Product Recycled Content (post industrial):	
----------------------------------------------------	--

Pricing

Quantity	Price
6 foot table	\$425.00

PARK AND RECREATION PRODUCTS

Product: Plastic Fencing

Manufacturer: Recycled Plastic
Products

800-235-7940

Website: www.Plasticproducts.net

Recycled

**EPA Recommended Recycled
Content:**

90-100%

**Product Recycled Content
(post consumer):**

100%

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price
1 linear foot	\$13.50

PARK AND RECREATION PRODUCTS

Product: **Playground Surfaces/Running Tracks**

Manufacturer: Kirkpatrick Rubber
 Company, Inc.

800-897-0616

Website: www.Rubberns.com

Recycled

**EPA Recommended Recycled
Content:**

90-100%

**Product Recycled Content
(post consumer):**

**Product Recycled Content
(post industrial):**

100%

Pricing

Quantity	Price
100 sq. feet	\$1.75/sq. ft.

FAA Product Substitution Guide

Affirmative Procurement

PARK AND RECREATION PRODUCTS

Product: **Recycled Park Benches**

Manufacturer: Barco Products Company **800-757-5460**

Website: www.Rubberns.com

Recycled

EPA Recommended Recycled Content:	100%
------------------------------------------	------

Product Recycled Content (post consumer):	90-100%
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Product Recycled Content (post industrial):	0-10%
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Pricing

Quantity	Price
6 foot bench	\$450.00

TRANSPORTATION PRODUCTS

Product: **Parking Stops**

Manufacturer: Durable Products, Inc.

615-484-3502

Website: www.Dpi.thomasregister.com

Recycled

EPA Recommended Recycled Content:

100%

Product Recycled Content (post consumer):

100%

Product Recycled Content (post industrial):

0%

Pricing

Quantity

Price

1 block

\$55.30

FAA Product Substitution Guide

Affirmative Procurement

TRANSPORTATION PRODUCTS

Product: Traffic Barricades

Manufacturer: All Fiberglass Products, 800-438-7395
Inc.

Website:

Recycled

EPA Recommended Recycled Content:	100%
------------------------------------------	------

Product Recycled Content (post consumer):	0%
--------------------------------------------------	----

Product Recycled Content (post industrial):	100%
----------------------------------------------------	------

Pricing

Quantity	Price
1 Barricade	\$40.00

FAA Product Substitution Guide

Affirmative Procurement

TRANSPORTATION PRODUCTS

Product: Traffic Barricades

Manufacturer: RENEW Plastics

920-845-2326

Website: www.Renewplastics.com

Recycled

EPA Recommended Recycled Content:	100%
------------------------------------------	------

Product Recycled Content (post consumer):	0%
--------------------------------------------------	----

Product Recycled Content (post industrial):	100%
----------------------------------------------------	------

Pricing

Quantity	Price
1 Barricade	\$51.50

TRANSPORTATION PRODUCTS

Product: Traffic Cones

Manufacturer: Work Area Protection Corp.

630-377-9100

Website: www.Workareaprotection.com

Recycled

EPA Recommended Recycled Content:

50-100%

Product Recycled Content (post consumer):

6%

Product Recycled Content (post industrial):

50%

Pricing

Quantity	Price
6 PVCS	\$2.50

VEHICULAR PRODUCTS

Product: Gear Oil

**Manufacturer: SOAR/Rosemead Oil
Products, Inc.**

562-941-3261

Website: www.Gtesupersite.com/rosemeadoil

Recycled

EPA Recommended Recycled Content:

**Product Recycled Content
(post consumer):**

**Product Recycled Content
(post industrial):**

Pricing

Quantity

SAE 80W- 90
85W-140

Price

\$0.71

FAA Product Substitution Guide

Affirmative Procurement

VEHICULAR PRODUCTS

Product: Re-refined Lubricating Oils - Engine Coolants

Manufacturer: Kleer-Flo

800-328-7942

Website: www.Kleer-flo.com

Recycled

EPA Recommended Recycled Content:

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

Pricing

Quantity		Price
25gallon unit	50	\$3306.98
gallon unit		\$4416.65

FAA Product Substitution Guide

Affirmative Procurement

VEHICULAR PRODUCTS

Product: Re-refined Oils/Motor Oil

Manufacturer: SOAR/Rosemead Oil Products, Inc. **562-941-3261**

Website: www.Gtesupersite.com/rosemeadoil

Recycled

EPA Recommended Recycled Content:

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

Pricing

Quantity	Price
10W40	\$4.20 /gallon

FAA Product Substitution Guide

Affirmative Procurement

VEHICULAR PRODUCTS

Product: Retread Car Tires

Manufacturer: AJ Power

902-847-9271

Website: www.yobjoj.tripod.com/ajpower

Recycled

EPA Recommended Recycled Content:

Product Recycled Content (post consumer):

Product Recycled Content (post industrial):

Pricing

Quantity	Price
Car Tire	\$14.00-56.35

FAA Product Substitution Guide

Affirmative Procurement

VEHICULAR PRODUCTS

Product: Retread Truck Radial Tires

Manufacturer: Dixie Southern Tires
Division

813-250-9156

Website: www.Southerntires.com

Recycled

**EPA Recommended Recycled
Content:**

**Product Recycled Content
(post consumer):**

**Product Recycled Content
(post industrial):**

Pricing

Quantity	Price
Truck Radial	\$120-140.00

FAA Product Substitution Guide

Affirmative Procurement

VEHICULAR PRODUCTS

Product: Standard Hydraulic Oil

Manufacturer: SOAR/Rosemead Oil Products, Inc. **562-941-3261**

Website: www.Gtesupersite.com/rosemeadoil

Recycled

EPA Recommended Recycled Content:

**Product Recycled Content
(post consumer):**

**Product Recycled Content
(post industrial):**

Pricing

Quantity

ISO 32,42,68

Price

\$3.40/gallon per drum

FAA Product Substitution Guide

Affirmative Procurement

Appendix A

Manufacturer Information

ADHESIVES

3M 3M Center St. Paul, Minnesota 55144-1000	POC Jack Lauber 800-362-3550
Chemtronics 8125 Cobb Center Drive Kennesaw, Georgia 30152	POC Dave Hildig 800-645-5244 x137
Dow Corning P.O. Box 0994 Midland, Michigan 48686	POC Product Specialist 800-634-9660
Franklin International 2020 Bruck Street Columbus, Ohio 43207	POC Michael Barkan 800-699-4583
GC Waldom 1801 Morgan Street Rockford, Illinois 61102	POC 800-435-2931
Roberts Consolidated Industries 1070 Mary Crest Road Henderson, Nevada 89014	POC Marlissa Dodge 702-568-9955
W.F. Taylor Co. 11545 Pacific Avenue Fontana, California 92337	POC 800-397-4583

CONSTRUCTION PRODUCTIONS

Erie Energy Products 1400 Irwin Drive Dr. Erie, Pennsylvania 16505	POC 814-454-2828
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CONSTRUCTION PRODUCTS

Amazon Environmental, Inc. 1732 Terrace Drive Roseville, Minnesota 55113	POC John Segala 800-566-2396
Dodge-Regupol, Inc. P.O. Box 989 Lancaster, Pennsylvania 17608-0989	POC John Hollern 859-268-9199
Dow Chemical CIG P.O. Box 1296 Midland, Michigan 48641	POC 800-441-4369
DURA Undercushions, Ltd. 8525 Delmeade Road Montreal, Quebec, Canada H4T 1M1	POC Michael Wilson 800-295-4126

CONSTRUCTION PRODUCTS

Durable Corporation 75 North Pleasant Street Norwalk, Ohio 44857	POC Tom Secor 800-537-1603
Enviroform Recycled Products, Inc. P.O. Box 553 Geneva, New York 14456	POC Tim Comerford 315-789-1810
Environmental Building Supplies 819 SE Taylor Street Portland, Oregon 97214	POC Aladdin Mohawk- manufacturer 503-222-3881
Holcim 6211 Ann Arbor Road Dundee, Michigan 48131	POC Ron Pafford 770-622-9220
Homasote Company P.O. Box 7240 West Trenton, New Jersey 08628-0240	POC Maker Mills 800-257-9491
ISG Resources - Iowa 220 Walnut, P.O. Box 585 Eddyville, Iowa 52553	POC Gary Greene 641-969-4501
ISG Resources - Texas P.O. Box 1700 Houston, Texas 77251-1700	POC Bob Sparacino 979-255-2513
Isolatek International 41 Furnace ST. Stanhope, New Jersey 07874	POC 973-347-1200
Knauf Fiberglass One Knauf Drive Shelbyville, Indiana 46176	POC 317-398-4434
Knight-Celotex Fiberboard One Northfield Plaza, Suite 410 Northfield, Illinois 60093	POC Harry Williams 800-535-4088
Nebraska Ash Company P.O. Box 80268 Lincoln, Nebraska 68501	POC Tex Leber 402-434-1779
NU_BLEND Paints, Inc. 40 E. McMicken Avenue Cincinnati, Ohio 45210	POC Bill Wojcik 513-200-0847
NU-BLEND Paints, Inc. 40 E. McMicken Avenue Cincinnati, Ohio 45210	POC Bill Wojcik 513-200-0847
Premier Tiles 17 Wexford Drive Monmouth Junction, New Jersey 08852	POC Salvatore Capobianco 732-438-1356
Santana Products, Inc. P.O. Box 2021 Scranton, Pennsylvania 18501	POC 800-368-5002

CONSTRUCTION PRODUCTS

Talisman Mills, Inc. 6000 West Executive Drive Mequon, Wisconsin 53092	POC Dennis Daniels 800-482-5466
Thermafiber 3711 W. Mill St. Extended. Wabash, Indiana 46992	POC 888-834-2371
US Greenbrier 809 W. Hill St. Charlotte, North Carolina 28208	POC 800-228-0024
Yemm and Hart 1417 Madison, Suite 308 Marquand, Missouri 63655-9153	POC Steven Yemm 573-783-5434

CORROSION PREVENTIVE

Dominion Restoration Inc. 2251-B Dabney Road Richmond, Virginia 23230	POC Michael Shore 804-359-4400
Finish Thompson, Inc 921 Greengarden Road Erie, Pennsylvania 16501	POC 800-934-9384
LPS Laboratories, Inc. 4647 Hugh Howell Road Tucker, Georgia 30085-5052	POC Ed Williams 800-241-8334

ELECTRONICS CLEANER

AccTech Company 650 East Crescent Avenue Upper Saddle River, New Jersey 07458	POC 800-284-5577
Chemtronics 8125 Cobb Center Drive Kennesaw, Georgia 30152	POC Dave Hildig 800-645-5244 x137
Ecolink, Inc. 1481 Rock Mountain Blvd. Stone Mountain, Georgia 30083	POC Sue Phillips 800-886-8240
Inland Technology, Inc. 401 East 27th Street Tacoma, Washington 98421	POC 800-552-3100
International Specialty Products (ISP) 1361 Alps Road Wayne, New Jersey 07470	POC Frank Fusiak 800-622-4423
LPS Laboratories, Inc. 4647 Hugh Howell Road Tucker, Georgia 30085-5052	POC Ed Williams 800-241-8334

ELECTRONICS CLEANER

Magna Flux 3624 West Lake Avenue Glenview, Illinois 60025	POC 847-657-5300
Miller Stephenson George Washington Highway Danbury, Connecticut 06810	POC 203-743-4447
P-T Technologies, Inc. 4647 Hugh Howell Road Tucker, Georgia 30085	POC 800-441-7874

FLUX

A.I.M. Products, Inc. 25 Kenney Drive Cranston, Rhode Island 02920	POC 401-232-2772
Litton Kester Solder 515 East Touhy Ave. Des Plaines, Illinois 60018	POC Tami Irving 800-253-7837

FREEZE SPRAY

Illinois Tool Works Company (ITW) 10125 Carver Road Cincinnati, Ohio 45242-4798	POC Chris McLaughlin 800-745-5355
Micro Care Chemical Corp. 525 John Downey Drive New Britain, Connecticut 06051	POC 860-827-0626
Tech Spray, Inc. P.O. Box 949 Amarillo, Texas 79105-0949	POC 800-858-4043
Va-Tran Systems, Inc. 677 Anita Street Suite A Chula Vista, California 91911	POC Mary B. Minas 800-379-4231

LANDSCAPING PRODUCTS

American Ecoboard, Inc. 200 Finn Court Farmingdale, New York 11735	POC 800-567-9851
Fiskars 2357 Daniels Street Madison, Wisconsin 53718	POC 800-500-4849
Profile Products, LLC 750 Lake Cook Road, Ste. 440 Buffalo Grove, Illinois 60089	POC 847-215-1144

LANDSCAPING PRODUCTS

Teknor Apex Company

505 Central Avenue
Pawtucket, Rhode Island 02861

POC 401-725-8000

LUBRICANT

Break-Free Inc.

1035 S. Linwood Ave.
Santa Ana, California 92705-4396

POC James Mercer 714-953-1900

Chevron

575 Market Street
San Francisco, California 94105

POC 415-894-7700

CPI Engineering Services, Inc.

P.O. Box 1666
Midland, Michigan 48641-1666

POC Jason Fokens 989-496-3780

Ecolink, Inc.

1481 Rock Mountain Blvd.
Stone Mountain, Georgia 30083

POC Delores Shaver 800-886-8240

LPS Laboratories, Inc.

4647 Hugh Howell Road
Tucker, Georgia 30085-5052

POC Ed Williams 800-241-8334

MISCELLANEOUS PRODUCTS

Amazing Recycled Products

PO Box 312
Colorado, Denver 80201

POC 800-241-2174

Cadillac Products

5800 Crooks Road
Michigan, Troy 48098

POC 248-879-5000

Castle Wood Products

Box 34-106
Boise, Idaho 83706

POC 208-368-0242

Damage Prevention Products

4650 East Second Street
California, Benicia 94510

POC 707-747-5503

Dawg, Inc.

80 Turnpike Dr.
Middlebury, Connecticut 06762

POC 203-598-3294

Eagle Recycled Products

1201 West Katela Avenue
California, Orange 92667

POC 800-448-4409

Earth Safe Inc.

P.O. Box 1401
Massachusetts, Marstons Mills 02648-0014

POC 508-420-5681

MISCELLANEOUS PRODUCTS

Fiberwood, Inc. 5854 88th Street, California, Sacramento 95828	POC 916-387-9754
FlexStake Inc. 2348 Bruner Lane SE Florida, Fort Myers 33912	POC 941-481-3539
Future Solutions 9769 West 119th Dr. Colorado, Broomfield 80021	POC 303-460-7007
Gopher Sign Company 1310 Randolph Avenue Minnesota, St. Paul 55105	POC 800-383-3156
Illinois Toolworks (ITW) 3700 West Avenue Illinois, Glenview	POC 847-657-4232
MBX Packaging Specialists P.O. Box 929 Wisconsin, Wausau 54402-0929	POC 715-845-1171
Signature Marketing 134 West St. Connecticut, Simsbury 06070	POC 860-658-7172
Sonoco 1850 Parkway Place, Suite 820 Georgia, Marietta 30067	POC 630-620-3414
Strapack 1601 East Voorhees Virginia, Danville 61832	POC 800-475-5006
U.S. Coexcell 400 West Dussell Dr. Ohio, Maumee 43537	POC 419-897-9110
US Plastic and Lumber 765 Skippack Pike, Suite 200 Pennsylvania, Blue Bell 19422	POC 215-283-9600
US Plastic Lumber Company 2600 West Roosevelt Road Illinois, Chicago 60608	POC 312-491-2500

NONPAPER OFFICE PRODUCTS

Atlantic Newsprint Company 1900 Thickson Road, South Whitby, ON, Canada	POC Mike Booth 905-708-1311
B. Brown & Associates 225 South Brady Avenue Newton, North Carolina 92336	POC 800-476-9512

NONPAPER OFFICE PRODUCTS

Greenco Products 72 Cotton Mill Hill, Unit A350 Brattleboro, Vermont 05301	POC 802-254-7605
Inland Empire Paper Company 3320 North Argonne Road Spokane, Washington 99212-2099	POC 509-924-1911
North Pacific Paper P.O. Box 2069 Longview, Washington 98632	POC Crystal Miller 800-426-0866
OrderSuppliesOnline.com 1420 Crystal Pointe St. Louis, Missouri 63146	POC 866-654-9797
Quill Corporation P.O. Box 94080 Palatine, Illinois 60094	POC 800-789-8040

PAPER AND PAPER PRODUCTS

Boise Cascade 1800 SW First Avenue, Ste. 300 Portland, Oregon 97201	POC 800-563-1562
Javits-Wagner-O'Day Program 1901 N. Beauregard Street Alexandria, Virginia 22311	POC 800-433-2304

PARK AND RECREATION PRODUCTS

Barco Products Company 11 N. Batavia Avenue Batavia, Illinois 60510	POC 800-757-5460
Kirkpatrick Rubber Company, Inc. P.O. Box 191918 Little Rock, Arkansas 72219	POC 800-897-0616
Recycled Plastic Products 1630 West Evans Avenue, Unit L Englewood, Colorado 80110	POC 800-235-7940

PESTICIDE

3M 3M Center St. Paul, Minnesota 55144	POC 651-737-6501
Aventis Environmental Science 95 Chestnut Ridge Road Montvale, New Jersey 07645	POC 800-438-5837

PESTICIDE

Bayer Company 100 Bayer Road Pittsburgh, Pennsylvania 15205-9741	POC 412-777-2000
Pierson Laboratories P.O. Box 157 Saluda, North Carolina 28773	POC 828-749-9813
The Clorox Company 1221 Broadway Oakland, California 94612	POC 800-843-6334

SOLVENT

Allied Enterprise 814 W. 45th Street Norfolk, Virginia 23508	POC Michael Barkan 800-943-5400
BioChem Systems, Inc. 3511 N. Ohio Street Wichita, Kansas 67219	POC Vicki McGraw 800-777-7870
Brunlin Corp. P.O. Box 270 Indianapolis, Indiana 46206-0270	POC Rick Bockworst 800-776-7149
Buckeye International 2700 Wagner Plaza Maryland Heights, Missouri 63043	POC Joe Dobinski 800-321-2583, Ext. 194
Cantol, Inc. 2211 North American Street Philadelphia, Pennsylvania 19133	POC 800-877-8643
Chemique, Inc. 315 N. Washington Avenue Moorestown, New Jersey 08057	POC Ed Drazga 800-225-4161
CRC Industries 885 Louis Drive Warminster, Pennsylvania 18974	POC 215-674-4300
Dominion Restoration, Inc. 2251-B Dabney Road Richmond, Virginia 23230	POC Michael Shore 804-359-4400
Ecolink, Inc. 1481 Rock Mountain Blvd. Stone Mountain, Georgia 30083	POC Delores Shaver 800-886-8240
Envirosan Products, Ltd. 170 Alexandra Boulevard Toronto, Canada M4R 1M4	POC 416-483-5580
Fine Organics Corp. 205 Main Street Lodi, New Jersey 07644	POC Lou Goldberg 800-526-7480

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Finger Lakes System Chemistry 420 St. Paul Street Rochester, New York 14605-1797	POC Dan McBride 800-876-0222
Graymills Corp. 3705 N. Lincoln Avenue Chicago, Illinois 60613	POC 773-477-4100
Inland Technology 401 East 27th Street Tacoma, Washington 98421-1203	POC 800-552-3100
International Speciality Products (ISP) 1361 Alps Road Wayne, New Jersey 07470	POC Frank Fusiak 800-622-4423
Mantek, Inc. P.O. Box 1521170 Irving, Texas 75015	POC 214-498-1981
Micro Care Chemical Corp. 34 Ronzo Road Bristol, Connecticut 06010-7792	POC 800-638-0125
Modern Chemical, Inc. P.O. Box 368 Jacksonville, Arkansas 72078	POC Nancy Burger 501-988-1311
Occidental Chemical Corp. Occidental Tower, LBJ Freeway Dallas, Texas 75244	POC 800-733-1165
Orange-Sol 955 N. Fiesta Blvd., Suite 1 Gilbert, Arizona 85233-2801	POC Rus Seideman 800-279-8822
Penetone Corp. 74 Hudson Avenue Tenafly, New Jersey 07670	POC 800-631-1652
P-T Technologies, Inc. 4647 Hugh Howell Road Tucker, Georgia 30085-5052	POC Michelle Doye 800-441-7874
Qual-Tech Enterprises, Inc. 1485 Bayshore Blvd., #8 San Francisco, California 94124-3002	POC Joe Brennan 415-467-7887
SOQ Environmental Technology P.O. Box 28450 Tempe, Arizona 85285-8450	POC Carlton Carew 480-966-2892
Stutton Corporation P.O. Box 7913 Metairie, Louisiana 70010	POC Lorie Student 800-357-1327
The State	POC 800-782-2436

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Turco Products, Inc.

3300 Montreal Industrial Way
Tucker, Georgia 30084

POC Mike Sisson 770-939-8332

Western Chemical International, Inc.

2939 N. 67th Place
Scottsdale, Arizona 85251

POC 480-990-9487

TRANSPORTATION PRODUCTS

All Fiberglass Products, Inc.

704 East Jackson Street
Joliet, Illinois 60475

POC 800-438-7395

Durable Products, Inc.

P.O. Box 826
Crossville, Tennessee 38557

POC 615-484-3502

RENEW Plastics

P.O. Box 480
Luxemburg, Wisconsin 54217

POC 920-845-2326

Work Area Protection Corp.

P.O. Box 4087
St. Charles, Illinois 60174

POC 630-377-9100

VEHICULAR PRODUCTS

AJ Power

P.O. Box 55
Auburn, Nova Scotia, Canada BOP 1A0

POC 902-847-9271

Dixie Southern Tires Division

300 West Platt Street
Tampa, Florida 33606

POC 813-250-9156

Kleer-Flo

15151 Technology Drive
Eden Prairie, Minnesota 55344

POC 800-328-7942

SOAR/Rosemead Oil Products, Inc.

12912 Lakeland Road
Sante Fe Springs, California 90670

POC 562-941-3261